

FCC Test Report

Report No.: 2405A112470EE

Applicant: Zhuhai Glory Technology Co., Ltd

Address: 8F, Bldg 7, No. 178 Dingxing Road, Tangjiawan Town, Zhuhai,
Guangdong, China

Product Name: Wi-Fi Doorbell Base Station

Product Model: S1

Multiple Models: N/A

Trade Mark: N/A

FCC ID: 2BMPT-S1

Standards: FCC CFR Title 47 Part 15E (§15.407)

Test Date: 2025-01-13 to 2025-02-18

Test Result: Complied

Issue Date: 2025-02-26

Reviewed by:

Abel chen

Approved by:

Jacob Kong

Abel Chen
Project Engineer

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Prepared by:

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Revision History

Version No.	Issued Date	Description
00	2025-02-26	Original

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1 General Information

1.1 Client Information

Applicant:	Zhuhai Glory Technology Co., Ltd
Address:	8F, Bldg 7, No. 178 Dingxing Road, Tangjiawan Town, Zhuhai, Guangdong, China
Manufacturer:	Zhuhai Glory Technology Co., Ltd
Address:	8F, Bldg 7, No. 178 Dingxing Road, Tangjiawan Town, Zhuhai, Guangdong, China

1.2 Product Description of EUT

The EUT is Wi-Fi Doorbell Base Station that contains 2.4G and 5G WLAN radios, this report covers the full testing of the 5G WLAN radio.

Sample Serial number	2WLG-1 for CE test, 2WLG-2 for RE&RF conducted test (assigned by WATC)
Sample Received Date	2024-12-26
Sample Status	Good Condition
Frequency Range	5150 MHz - 5250MHz (a/n20) 5250 MHz - 5350MHz (a/n20) 5470 MHz - 5725MHz (a/n20) 5725 MHz - 5850MHz (a/n20)
Maximum Conducted Output Power	5150 MHz - 5250MHz: 13.84dBm 5250 MHz - 5350MHz: 14.58dBm 5470 MHz - 5725MHz: 15.56dBm 5725 MHz - 5850MHz: 15.13dBm
Modulation Technology	OFDM
Spatial Streams	SISO (1TX, 1RX)
Antenna Gain [#]	3.08dBi
Power Supply	AC 100~240
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
Device Antenna information:	
The Wi-Fi antenna is an integral antenna which cannot replace by end-user. Please see the product internal photos for details.	

1.4 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment Class: DTS, FCC ID: 2BMPT-S1

1.5 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
Emissions, Radiated	Below 30MHz	±2.78dB
	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%
Power Spectral Density		0.74dB
Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.		

1.6 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10-2013

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method

2 Description of Measurement

2.1 Test Configuration

Operating channels: (5150-5250MHz)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
36	5180	40	5200	44	5220
48	5240	/	/	/	/
According to ANSI C63.10-2013 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
802.11a, 802.11n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
36	5180	40	5200	48	5240

Operating channels: (5250-5350MHz)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
52	5260	56	5280	60	5300
64	5320	/	/	/	/
According to ANSI C63.10-2013 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
802.11a, 802.11n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
52	5260	56	5280	64	5320

Operating channels: (5470-5725MHz)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
100	5500	116	5580	132	5660
104	5520	120	5600	136	5680
108	5540	124	5620	140	5700
112	5560	128	5640	/	/
According to ANSI C63.10-2013 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
802.11a, 802.11n-HT20					

Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
100	5500	116	5580	140	5700

Operating channels: (5725-5850MHz)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
149	5745	157	5785	165	5825
153	5765	161	5805	/	/
According to ANSI C63.10-2013 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
802.11a, 802.11n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
149	5745	157	5785	165	5825

Test Mode:				
Transmitting mode:		Keep the EUT in continuous transmitting with modulation		
Exercise software [#] :		SecureCRT		
Mode	Data rate	Power Level Setting [#]		
		Low Channel	Middle Channel	High Channel
802.11a	6Mbps	14	14	14
802.11n-HT20	MCS0	14	14	14
The exercise software and the maximum power setting that provided by manufacturer.				

Worst-Case Configuration:
For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report
For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.
For radiated emissions below 30MHz, three antenna orientations (parallel, perpendicular, ground-parallel) were tested, only record the worse case test data in report.

2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
Kingston	micro SD card	unknown	unknown

2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
/	/	/	/	/

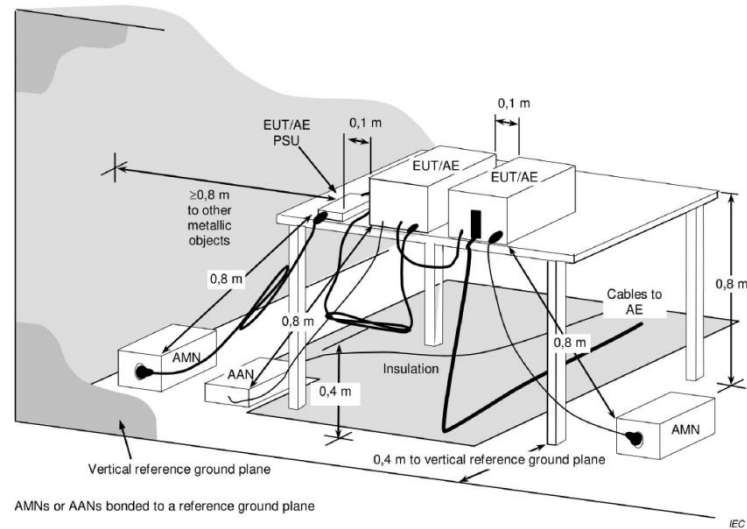
2.4 Block Diagram of Connection between EUT and AE



Note: for reference only, the actual connection setup used for testing please refer to the test photos.

2.5 Test Setup

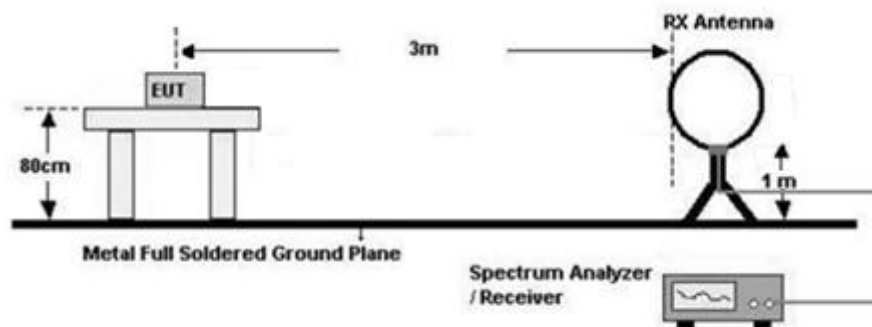
1) Conducted emission measurement:



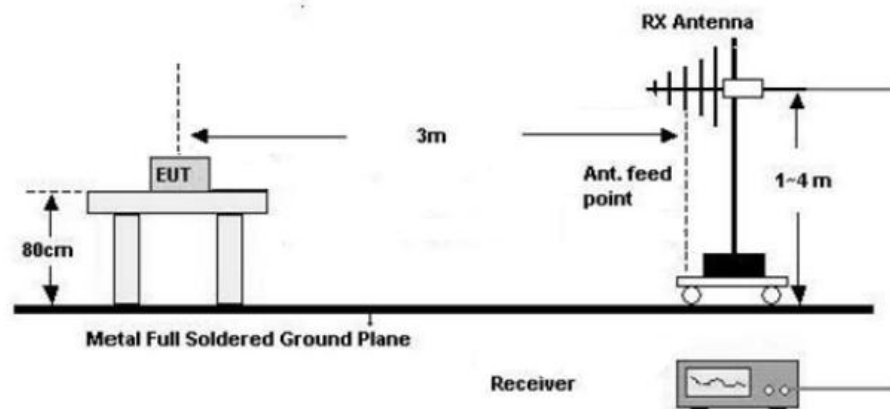
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

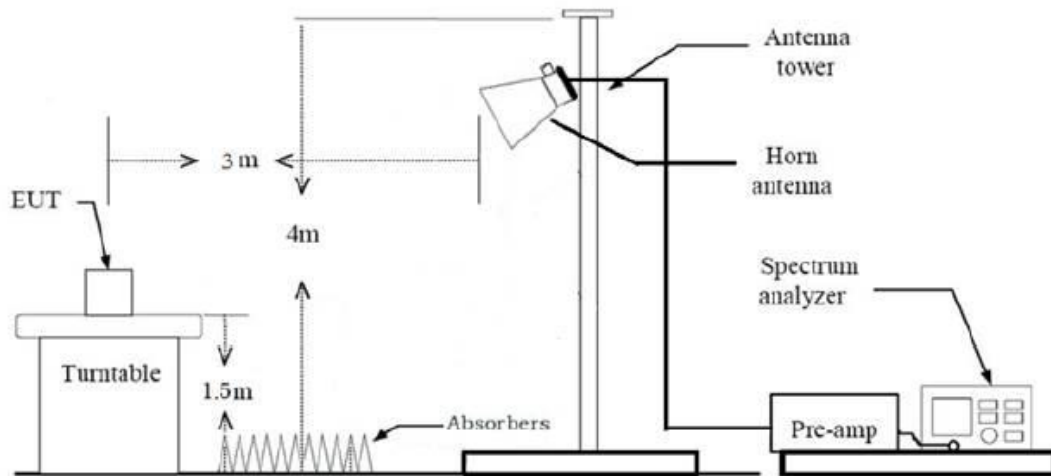
Below 30MHz (3m SAC)



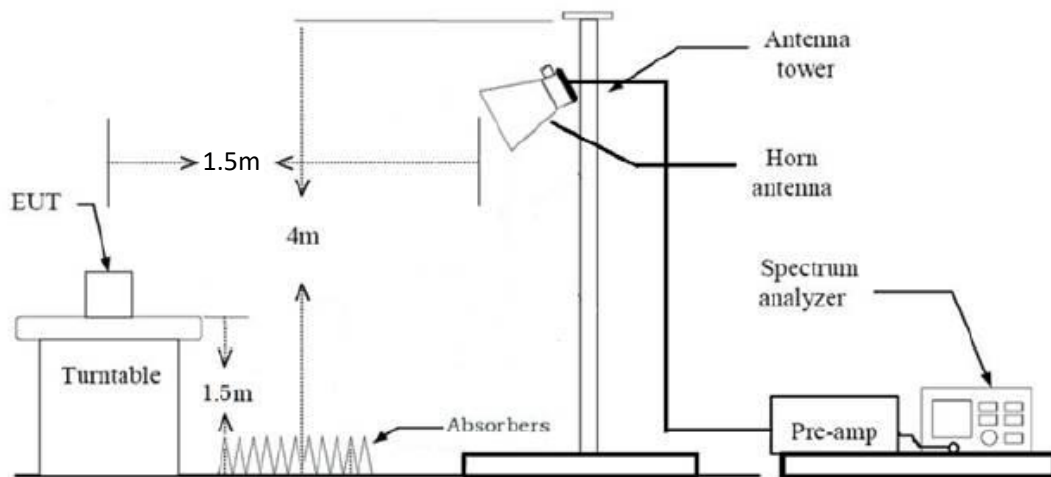
30MHz-1GHz (3m SAC)



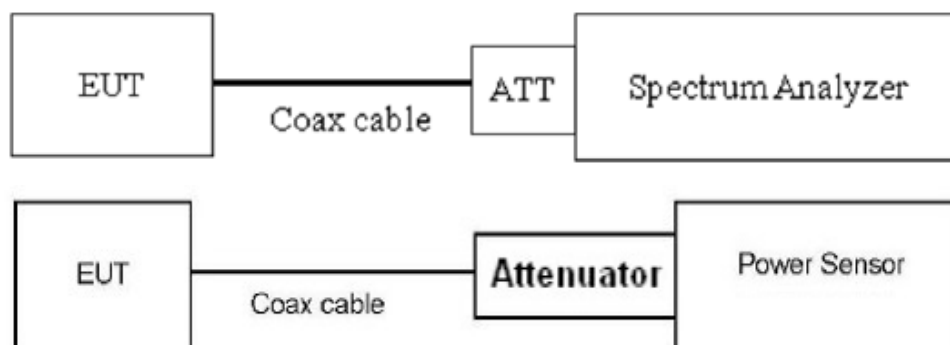
1GHz-18GHz



Above 18GHz



3) RF Conducted Test



2.6 Test Procedure

Conducted emission:

1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
2. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For below 30MHz

1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were $40 \cdot \log(\text{test distance} / \text{specification distance})$.
2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, ground-parallel)
3. The RBW/VBW of receiver is set to 200Hz/1kHz for 9kHz to 150kHz range, to 10kHz/30kHz for 150kHz to 30MHz range for scan Peak emission, 200Hz/9kHz IF BW was used for final measurement in the Quasi-peak or average detection mode for frequency range 9~150kHz/150kHz~30MHz respectively.
4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

b) For 30MHz-1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. The RBW/VBW of receiver is set to 100kHz/300kHz for scan Peak emission, 120kHz IF BW was used for final measurement in the Quasi-peak detection mode.
4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

c) For above 1GHz:

1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal

polarizations.

3. The RBW/VBW of spectrum analyzer is set to 1MHz/3MHz for scan Peak emission, for measured average emission, reduce the VBW to 10Hz(for duty cycle $\geq$ 98%), or $\geq 1/T$ (for duty cycle $<$ 98%). T is minimum transmission duration. (Note: a high VBW (for example 1kHz, not less than $1/T$) may used to scan average emissions to avoid long sweep time.)
4. If the Peak emission complies with the Average limit, then perform average measurement is optional.
5. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
6. Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

RF Conducted Test:

1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or Spectrum analyzer) through Attenuator and RF cable.
2. The cable assembly insertion loss of 10dB (including 6.0 dB Attenuator and 3.0 dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 3.0dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

2.7 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.10-2013 Section 6.2
Maximum Conducted Output Power	KDB 789033 D02 v02r01 section E.3. b)
Power Spectral Density	KDB 789033 D02 v02r01 section F
26 dB Emission Bandwidth	KDB 789033 D02 v02r01 section C.1
6 dB Emission Bandwidth	KDB 789033 D02 v02r01 section C.2
99% Occupied Bandwidth	KDB 789033 D02 v02r01 section D.
Unwanted Emissions	KDB 789033 D02 v02r01 section G.
Duty Cycle	KDB 789033 D02 v02r01 section B.

2.8 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2024/6/4	2025/6/3
R&S	LISN	ENV216	101748	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.12	N/A	2024/6/4	2025/6/3
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2024/6/4	2025/6/3
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2024/6/4	2025/6/3
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2024/6/4	2025/6/3
A.H. Systems	PREAMPLIFIER	PAM-0118P	531	2024/6/4	2025/6/3
COM-POWER	Amplifier	PAM-840A	461306	2024/8/7	2025/8/6
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2026/7/9
Ducommun technologies	Horn Antenna	ARH-2823-02	1007726-03	2023/7/10	2026/7/9
Oulitong	Band Reject Filter	OBSF-5150-585 0-S	OE02104371	2024/6/4	2025/6/3
Unknown	6.7G High Pass Filter	Unknown	6.7G	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.9	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.13	N/A	2024/8/7	2025/8/6
N/A	Coaxial Cable	NO.15	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.16	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.17	N/A	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	/	/
RF Conducted Test					
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40	101419	2024/6/4	2025/6/3
ANRITSU	USB Power Sensor	MA24418A	12620	2024/6/4	2025/6/3
narda	6dB attenuator	603-06-1	N/A	2024/6/4	2025/6/3

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.

3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a) §15.407 (b)(9)	AC Line Conducted Emissions	Compliance
§15.407 (a)	Maximum Conducted Output Power Power Spectral Density	Compliance
§15.407 (a)	99% Occupied Bandwidth	Compliance
§15.407 (a)	26 dB Emission Bandwidth	Compliance
§15.407 (e)	6 dB Emission Bandwidth	Compliance
§15.205, §15.209, §15.407 (b)	Unwanted Emissions	Compliance
/	Duty Cycle	Report only

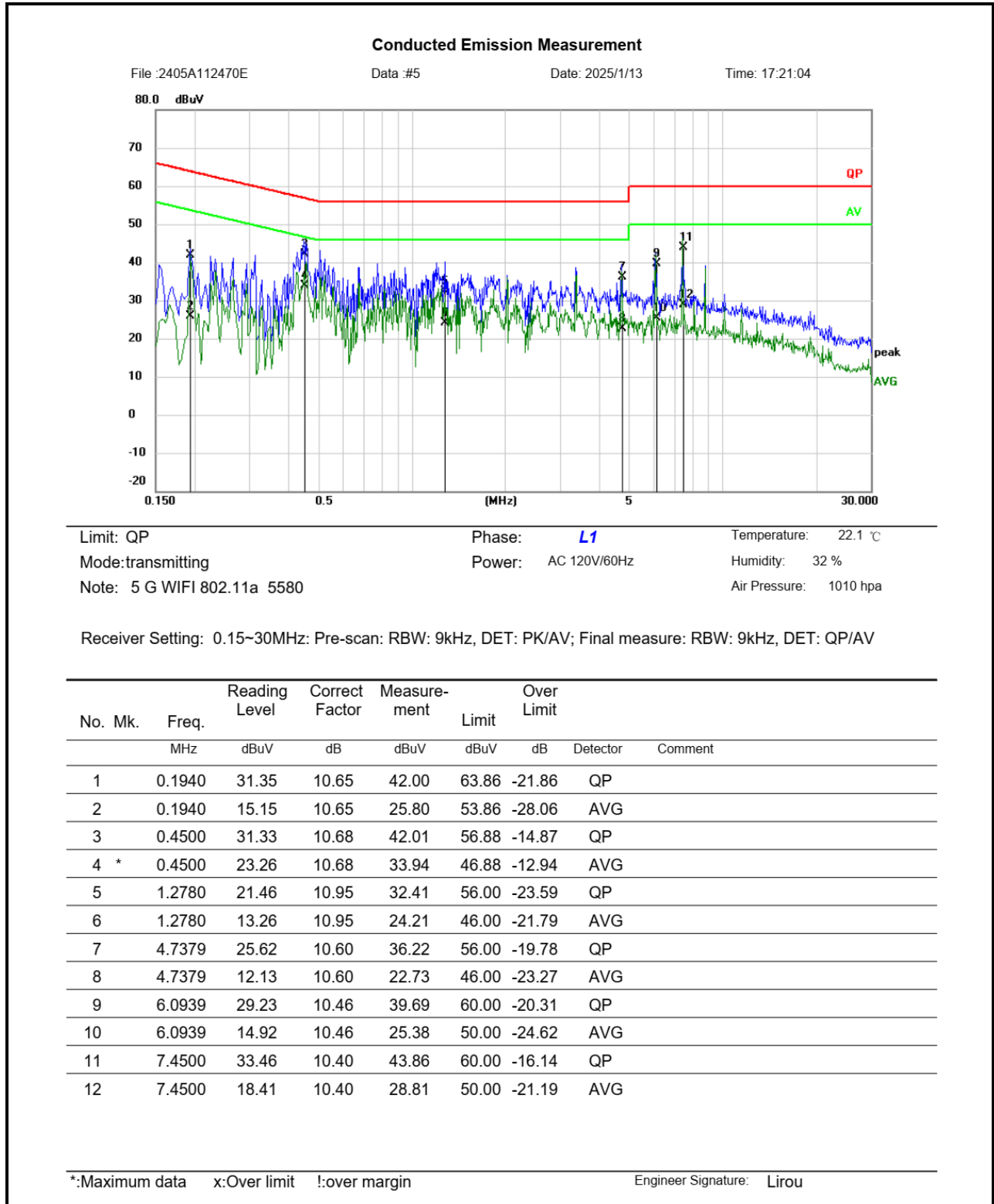
3.2 Limit

Test items	Limit
AC Power Line Conducted Emission	See details §15.207 (a)
Conducted Peak Output Power	For the band 5.15-5.25 GHz: For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5. 25-5.35 GHz and band 5. 47-5.725 GHz: For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz: For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, Fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Power Spectral Density	
26dB Emission Bandwidth 99% Occupied Bandwidth	N/A
6dB Emission Bandwidth	Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Unwanted Emissions	For transmitters operating in the 5.15–5.25 GHz band: All emissions outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz. For transmitters operating in the 5.25–5.35 GHz band: All emissions outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz. For transmitters operating in the 5.47–5.725 GHz band: All emissions outside of the 5.47–5.725 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz. For transmitters operating solely in the 5.725–5.850 GHz band: All emissions shall be limited to a level of –27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. The provisions of § 15.205 apply to intentional radiators operating under this section.
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3.3 AC Line Conducted Emissions Test Data

Test Date:	2025-01-13	Test By:	Lirou Li
Environment condition:	Temperature: 22.1°C; Relative Humidity:32%; ATM Pressure: 101kPa		



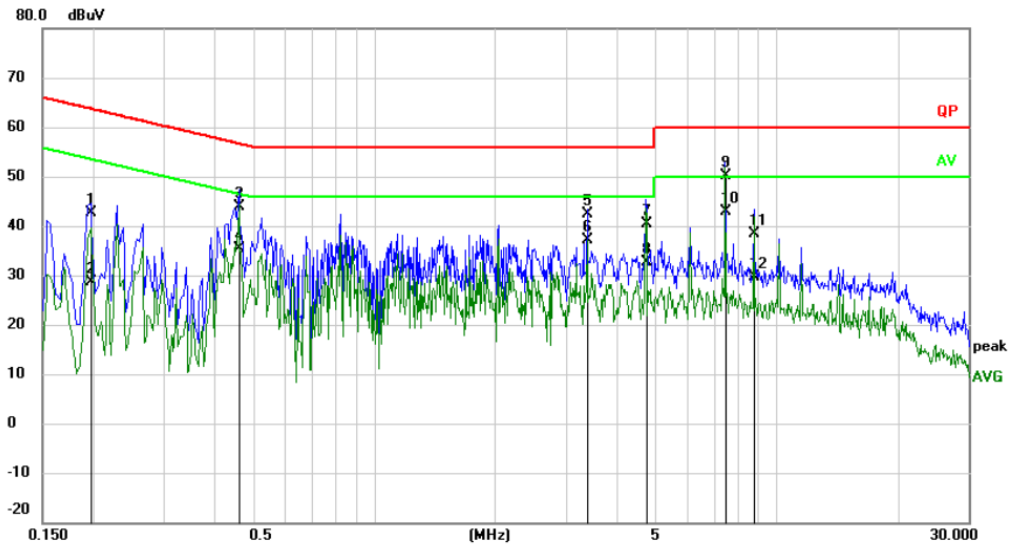
Conducted Emission Measurement

File :2405A112470E

Data :#6

Date: 2025/1/13

Time: 17:24:19



Limit: QP

Phase: **N**

Temperature: 22.1 °C

Mode:transmitting

Power: AC 120V/60Hz

Humidity: 32 %

Note: 5 G WIFI 802.11a 5580

Air Pressure: 1010 hpa

Receiver Setting: 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over Limit dB	Detector	Comment
1	0.1980	32.24	10.46	42.70	63.69	-20.99	QP	
2	0.1980	18.25	10.46	28.71	53.69	-24.98	AVG	
3	0.4620	33.09	10.75	43.84	56.66	-12.82	QP	
4	0.4620	24.59	10.75	35.34	46.66	-11.32	AVG	
5	3.3940	31.82	10.46	42.28	56.00	-13.72	QP	
6	3.3940	26.72	10.46	37.18	46.00	-8.82	AVG	
7	4.7460	29.94	10.42	40.36	56.00	-15.64	QP	
8	4.7460	22.27	10.42	32.69	46.00	-13.31	AVG	
9	7.4620	39.72	10.33	50.05	60.00	-9.95	QP	
10 *	7.4620	32.66	10.33	42.99	50.00	-7.01	AVG	
11	8.8180	27.83	10.52	38.35	60.00	-21.65	QP	
12	8.8180	19.00	10.52	29.52	50.00	-20.48	AVG	

*:Maximum data x:Over limit !:over margin

Engineer Signature: Lirou

Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

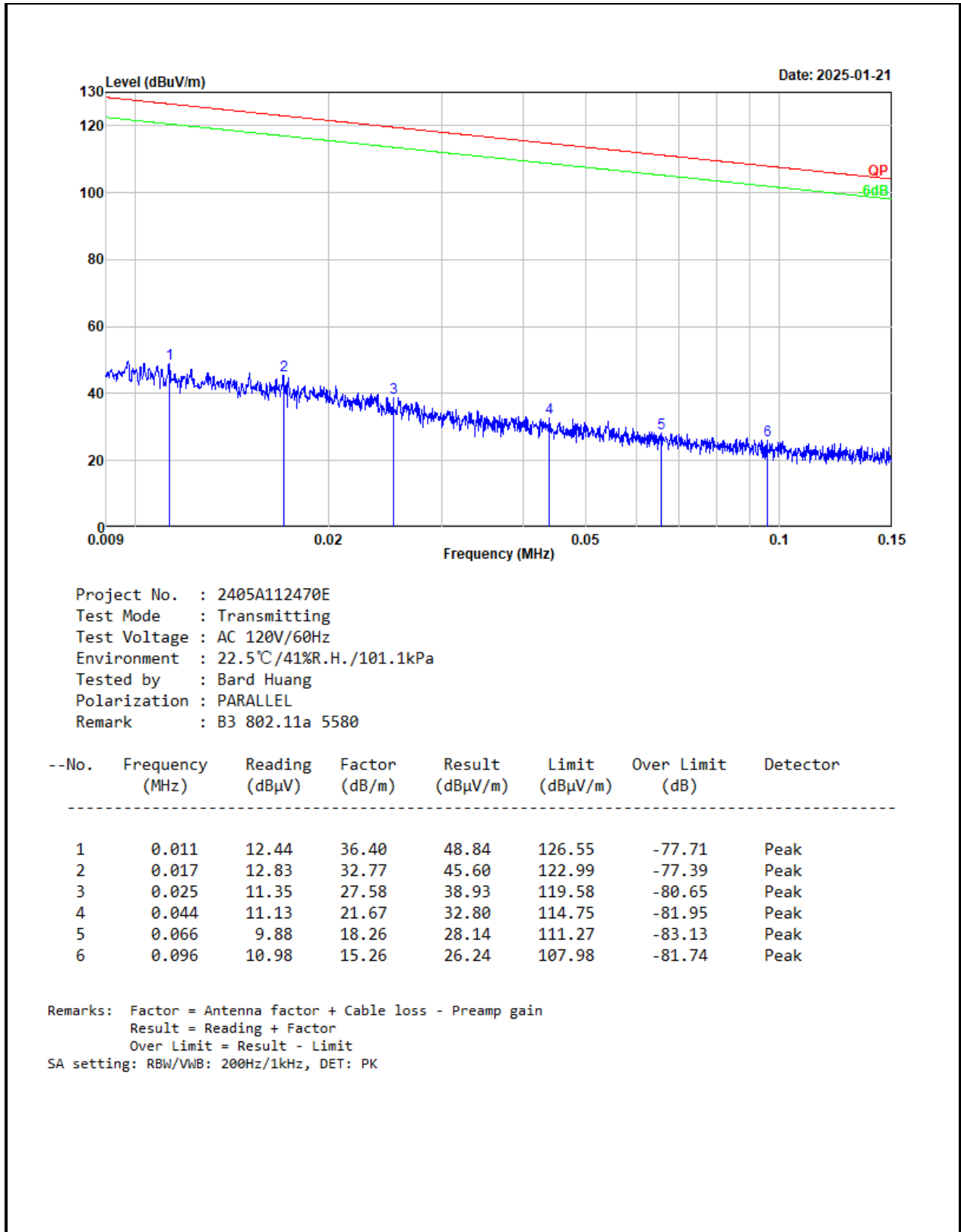
Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

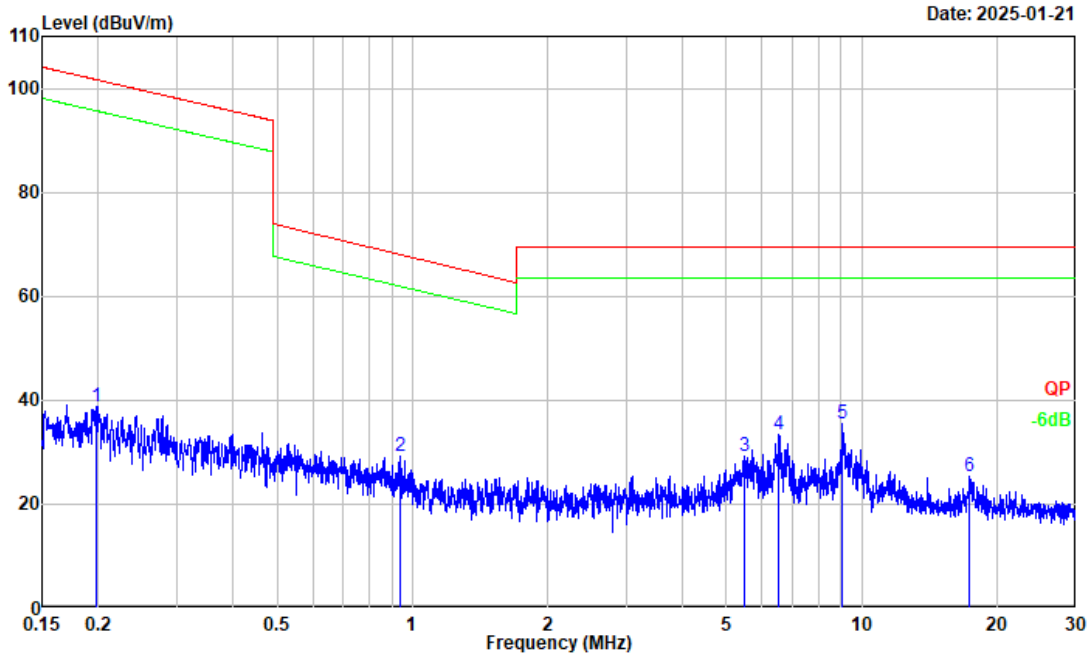
Over Limit= Measurement – Limit

3.4 Radiated emission Test Data

9 kHz-30MHz:

Test Date:	2025-01-21	Test By:	Bard Huang
Environment condition:	Temperature: 22.5°C; Relative Humidity:41%; ATM Pressure: 101.1kPa		





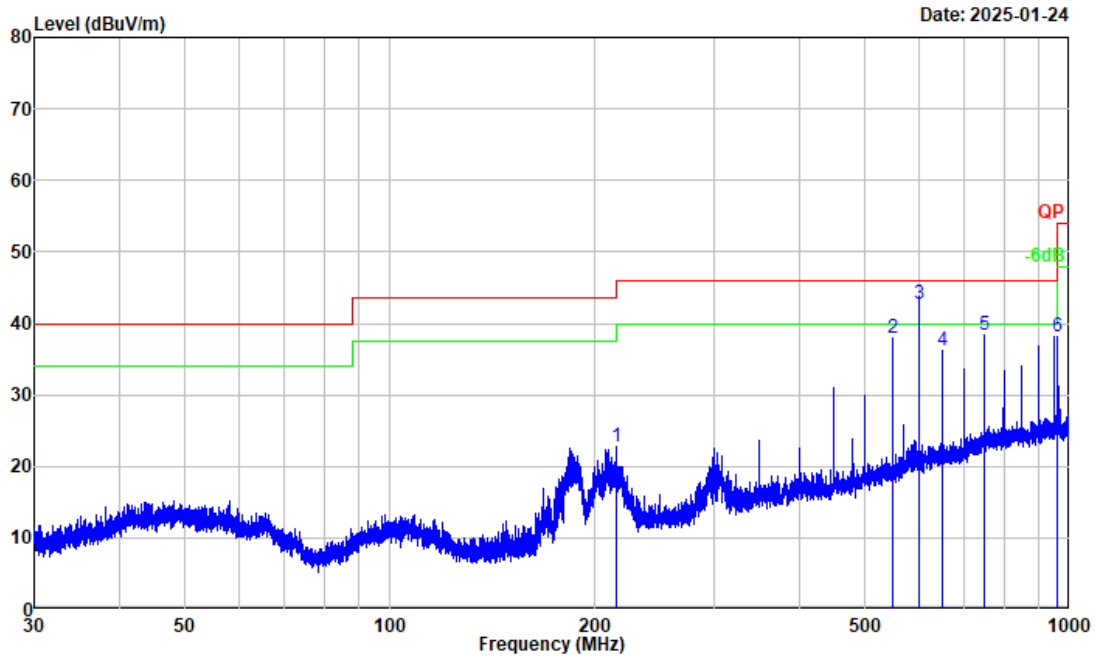
Project No. : 2405A112470E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5°C/41%R.H./101.1kPa
Tested by : Bard Huang
Polarization : PARALLEL
Remark : B3 802.11a 5580

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.199	26.63	12.20	38.83	101.64	-62.81	Peak
2	0.940	28.08	1.02	29.10	68.02	-38.92	Peak
3	5.483	33.11	-4.02	29.09	69.54	-40.45	Peak
4	6.542	37.32	-4.04	33.28	69.54	-36.26	Peak
5	9.056	39.15	-3.66	35.49	69.54	-34.05	Peak
6	17.379	28.52	-3.25	25.27	69.54	-44.27	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VWB: 9kHz/30kHz, DET: PK

30MHz-1GHz:

Test Date:	2025-01-24	Test By:	Bard Huang
Environment condition:	Temperature: 22.5°C; Relative Humidity:41%; ATM Pressure: 101.1kPa		

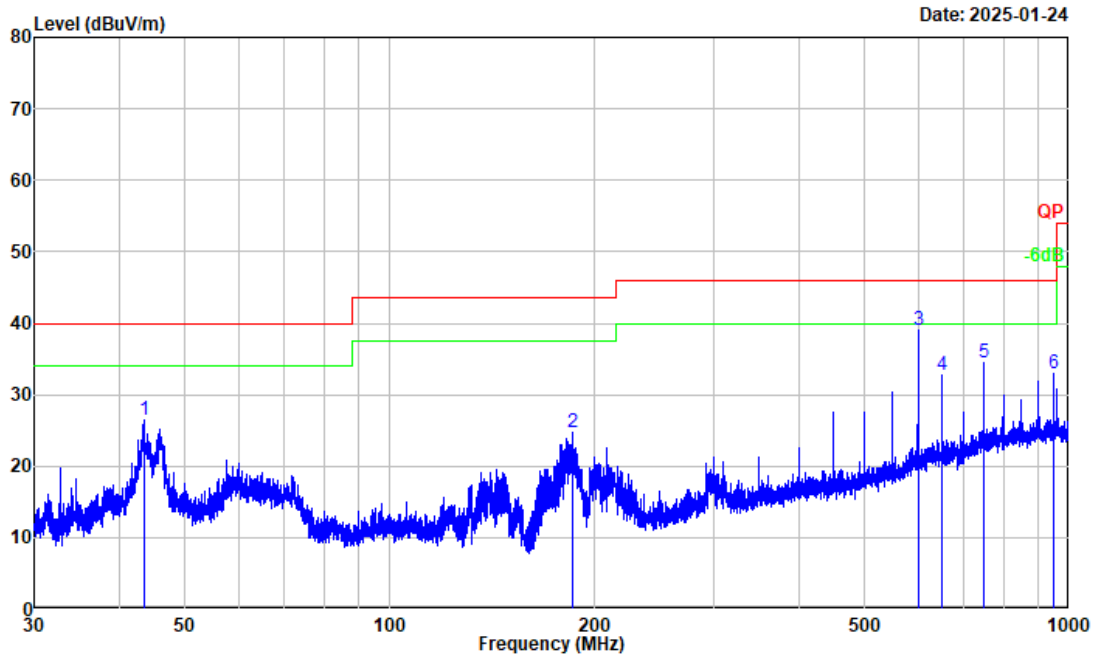


Project No. : 2405A112470E-RF
 Test Mode : Transmitting
 Test Voltage : AC 120V/60Hz
 Environment : 22.5°C/41%R.H./101.1kPa
 Tested by : Bard Huang
 Polarization : horizontal
 Remark : B3 802.11a 5580

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector

1	215.079	36.50	-13.73	22.77	43.50	-20.73	Peak
2	549.983	44.42	-6.40	38.02	46.00	-7.98	Peak
3	600.110	47.91	-5.12	42.79	46.00	-3.21	QP
4	650.229	40.62	-4.33	36.29	46.00	-9.71	Peak
5	750.108	40.99	-2.66	38.33	46.00	-7.67	Peak
6	960.056	39.25	-1.00	38.25	54.00	-15.75	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
 Result = Reading + Factor
 Over Limit = Result - Limit
 SA setting: Pre-scan: RBW/VNB: 100kHz/300kHz, DET: PK
 Final measure: RBW: 120kHz, DET: QP



Project No. : 2405A112470E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5°C/41%R.H./101.1kPa
Tested by : Bard Huang
Polarization : vertical
Remark : B3 802.11a 5580

--No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
1	43.639	38.76	-12.24	26.52	40.00	-13.48	Peak
2	185.707	39.63	-15.00	24.63	43.50	-18.87	Peak
3	600.110	44.14	-5.12	39.02	46.00	-6.98	Peak
4	650.229	36.97	-4.33	32.64	46.00	-13.36	Peak
5	750.108	37.12	-2.66	34.46	46.00	-11.54	Peak
6	950.009	34.12	-1.14	32.98	46.00	-13.02	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VWB: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

Above 1GHz:

Test Date:	2025-01-25~2025-02-20	Test By:	Bard Huang
Environment condition:	Temperature: 22.8~23.4°C; Relative Humidity:40~55%; ATM Pressure: 101.0~101.5kPa		

Frequency (MHz)	Reading level (dBμV)	Polar (H/V)	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
5150-5250MHz							
802.11a							
Low Channel							
15540.000	39.23	horizontal	6.14	45.37	54.00	-8.63	Average
15540.000	49.88	horizontal	6.14	56.02	74.00	-17.98	Peak
15540.000	38.38	vertical	6.14	44.52	54.00	-9.48	Average
15540.000	53.86	vertical	6.14	60.00	74.00	-14.00	Peak
Middle Channel							
15600.000	38.93	horizontal	6.05	44.98	54.00	-9.02	Average
15600.000	49.29	horizontal	6.05	55.34	74.00	-18.66	Peak
15600.000	38.53	vertical	6.05	44.58	54.00	-9.42	Average
15600.000	52.11	vertical	6.05	58.16	74.00	-15.84	Peak
High Channel							
15720.000	38.64	horizontal	5.44	44.08	54.00	-9.92	Average
15720.000	51.62	horizontal	5.44	57.06	74.00	-16.94	Peak
15720.000	39.86	vertical	5.44	45.30	54.00	-8.70	Average
15720.000	54.79	vertical	5.44	60.23	74.00	-13.77	Peak
802.11n20							
Low Channel							
15540.000	38.83	horizontal	6.14	44.97	54.00	-9.03	Average
15540.000	54.62	horizontal	6.14	60.76	74.00	-13.24	Peak
15540.000	38.25	vertical	6.14	44.39	54.00	-9.61	Average
15540.000	53.82	vertical	6.14	59.96	74.00	-14.04	Peak
Middle Channel							
15600.000	37.91	horizontal	6.05	43.96	54.00	-10.04	Average
15600.000	54.05	horizontal	6.05	60.10	74.00	-13.90	Peak
15600.000	38.37	vertical	6.05	44.42	54.00	-9.58	Average
15600.000	54.83	vertical	6.05	60.88	74.00	-13.12	Peak
High Channel							
15720.000	38.26	horizontal	5.44	43.70	54.00	-10.30	Average

15720.000	52.06	horizontal	5.44	57.50	74.00	-16.50	Peak
15720.000	38.15	vertical	5.44	43.59	54.00	-10.41	Average
15720.000	52.01	vertical	5.44	57.45	74.00	-16.55	Peak
5250-5350MHz							
802.11a							
Low Channel							
15780.000	39.04	horizontal	5.51	44.55	54.00	-9.45	Average
15780.000	54.10	horizontal	5.51	59.61	74.00	-14.39	Peak
15780.000	38.11	vertical	5.51	43.62	54.00	-10.38	Average
15780.000	54.20	vertical	5.51	59.71	74.00	-14.29	Peak
Middle Channel							
15840.000	37.97	horizontal	5.67	43.64	54.00	-10.36	Average
15840.000	55.53	horizontal	5.67	61.20	74.00	-12.80	Peak
15840.000	38.25	vertical	5.67	43.92	54.00	-10.08	Average
15840.000	55.72	vertical	5.67	61.39	74.00	-12.61	Peak
High Channel							
15960.000	37.96	horizontal	6.22	44.18	54.00	-9.82	Average
15960.000	53.93	horizontal	6.22	60.15	74.00	-13.85	Peak
15960.000	37.91	vertical	6.22	44.13	54.00	-9.87	Average
15960.000	53.45	vertical	6.22	59.67	74.00	-14.33	Peak
802.11n20							
Low Channel							
15780.000	39.11	horizontal	5.51	44.62	54.00	-9.38	Average
15780.000	51.29	horizontal	5.51	56.80	74.00	-17.20	Peak
15780.000	38.12	vertical	5.51	43.63	54.00	-10.37	Average
15780.000	51.45	vertical	5.51	56.96	74.00	-17.04	Peak
Middle Channel							
15840.000	39.00	horizontal	5.67	44.67	54.00	-9.33	Average
15840.000	53.85	horizontal	5.67	59.52	74.00	-14.48	Peak
15840.000	38.57	vertical	5.67	44.24	54.00e	-9.76	Average
15840.000	52.75	vertical	5.67	58.42	74.00	-15.58	Peak
High Channel							
15960.000	38.10	horizontal	6.22	44.32	54.00	-9.68	Average
15960.000	52.46	horizontal	6.22	58.68	74.00	-15.32	Peak
15960.000	38.58	vertical	6.22	44.80	54.00	-9.20	Average
15960.000	53.95	vertical	6.22	60.17	74.00	-13.83	Peak
5470-5725MHz							
802.11a							

Low Channel							
11000.000	38.95	horizontal	3.46	42.41	54.00	-11.59	Average
11000.000	57.89	horizontal	3.46	61.35	74.00	-12.65	Peak
11000.000	37.97	vertical	3.46	41.43	54.00	-12.57	Average
11000.000	53.85	vertical	3.46	57.31	74.00	-16.69	Peak
Middle Channel							
11160.000	38.26	horizontal	4.75	43.01	54.00	-10.99	Average
11160.000	55.17	horizontal	4.75	59.92	74.00	-14.08	Peak
11160.000	38.53	vertical	4.75	43.28	54.00	-10.72	Average
11160.000	51.88	vertical	4.75	56.63	74.00	-17.37	Peak
High Channel							
11400.000	38.76	horizontal	5.21	43.97	54.00	-10.03	Average
11400.000	49.15	horizontal	5.21	54.36	74.00	-19.64	Peak
11400.000	38.63	vertical	5.21	43.84	54.00	-10.16	Average
11400.000	49.72	vertical	5.21	54.93	74.00	-19.07	Peak
802.11n20							
Low Channel							
11000.000	38.97	horizontal	3.46	42.43	54.00	-11.57	Average
11000.000	56.81	horizontal	3.46	60.27	74.00	-13.73	Peak
11000.000	38.91	vertical	3.46	42.37	54.00	-11.63	Average
11000.000	52.81	vertical	3.46	56.27	74.00	-17.73	Peak
Middle Channel							
11160.000	38.48	horizontal	4.75	43.23	54.00	-10.77	Average
11160.000	52.88	horizontal	4.75	57.63	74.00	-16.37	Peak
11160.000	38.83	vertical	4.75	43.58	54.00	-10.42	Average
11160.000	51.01	vertical	4.75	55.76	74.00	-18.24	Peak
High Channel							
11400.000	38.13	horizontal	5.21	43.34	54.00	-10.66	Average
11400.000	52.84	horizontal	5.21	58.05	74.00	-15.95	Peak
11400.000	38.72	vertical	5.21	43.93	54.00	-10.07	Average
11400.000	49.29	vertical	5.21	54.50	74.00	-19.50	Peak
5725-5850MHz							
802.11a							
Low Channel							
11490.000	48.54	horizontal	5.35	53.89	74.00	-20.11	Peak
11490.000	48.10	vertical	5.35	53.45	74.00	-20.55	Peak
Middle Channel							
11570.000	47.71	horizontal	4.79	52.50	74.00	-21.50	Peak

11570.000	47.74	vertical	4.79	52.53	74.00	-21.47	Peak
High Channel							
11650.000	48.51	horizontal	4.47	52.98	74.00	-21.02	Peak
11650.000	38.52	vertical	4.47	42.99	54.00	-11.01	Average
11650.000	49.87	vertical	4.47	54.34	74.00	-19.66	Peak
802.11n20							
Low Channel							
11490.000	46.49	horizontal	5.35	51.84	74.00	-22.16	Peak
11490.000	45.98	vertical	5.35	51.33	74.00	-22.67	Peak
Middle Channel							
11570.000	47.35	horizontal	4.79	52.14	74.00	-21.86	Peak
11570.000	47.82	vertical	4.79	52.61	74.00	-21.39	Peak
High Channel							
11650.000	48.85	horizontal	4.47	53.32	74.00	-20.68	Peak
11650.000	48.89	vertical	4.47	53.36	74.00	-20.64	Peak

Note:

Corrected factor=Antenna factor + Cable loss - Amplifier Gain

Corrected Amplitude=Reading level + Correct factor

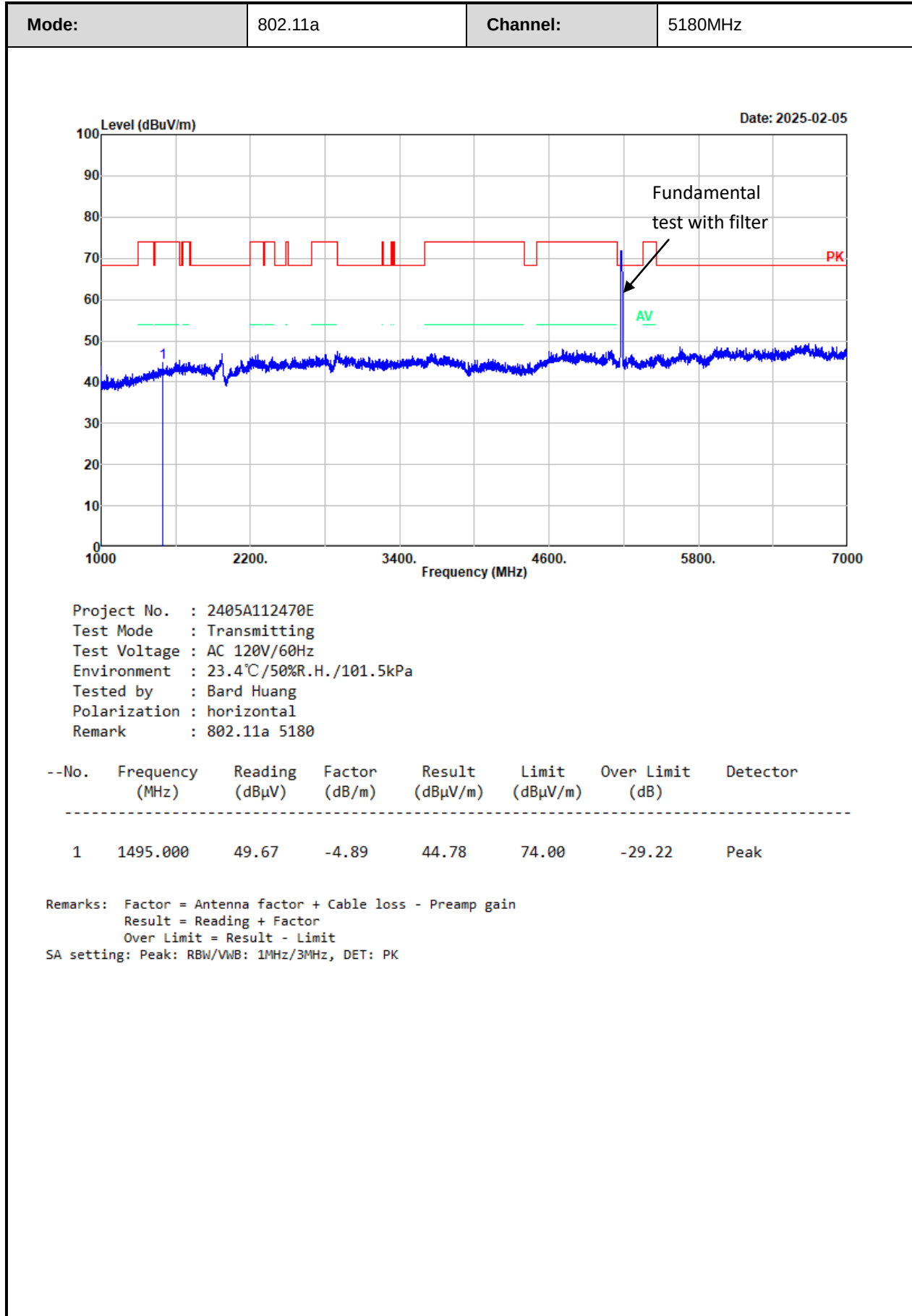
Margin= Corrected Amplitude-Limit

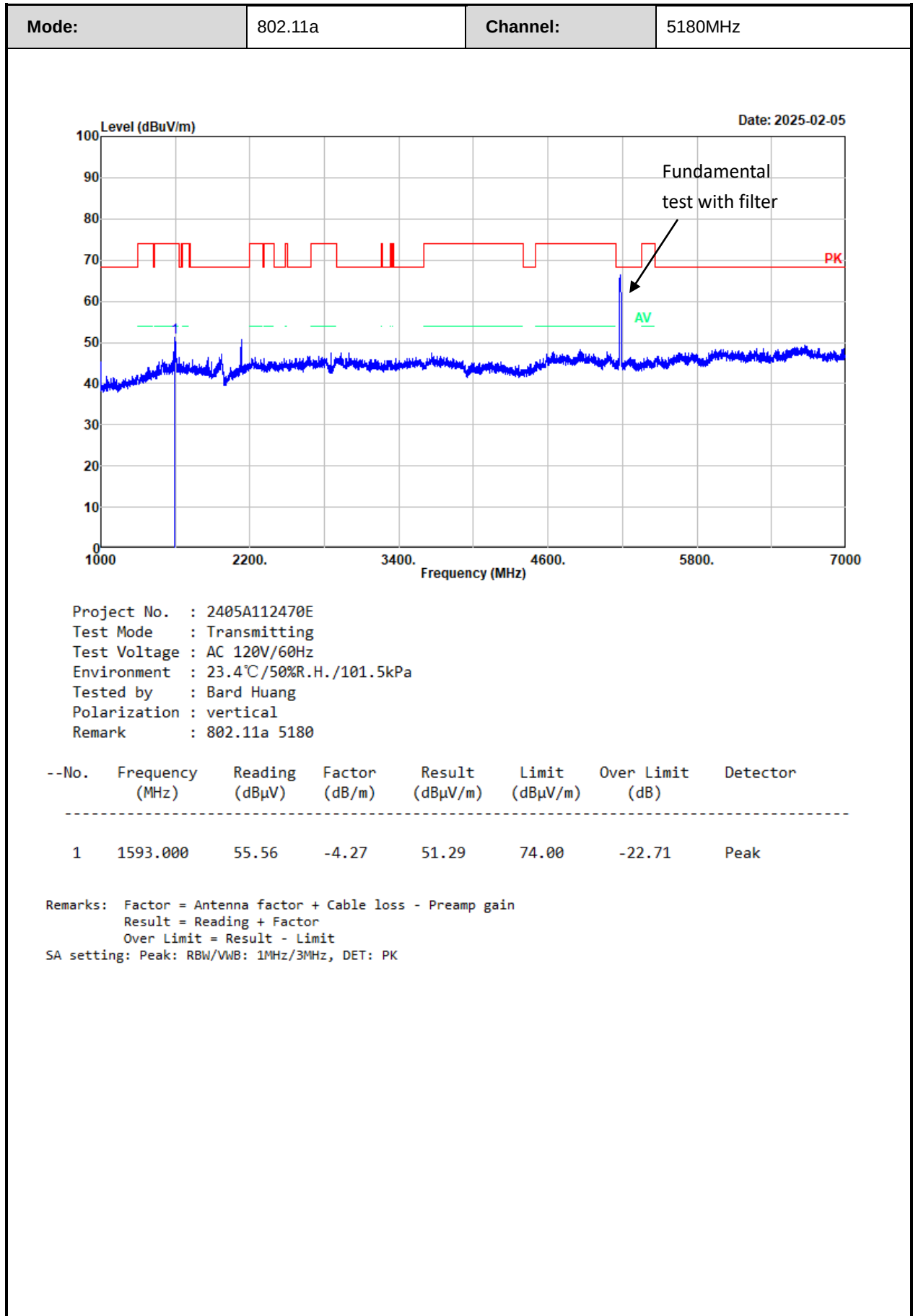
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

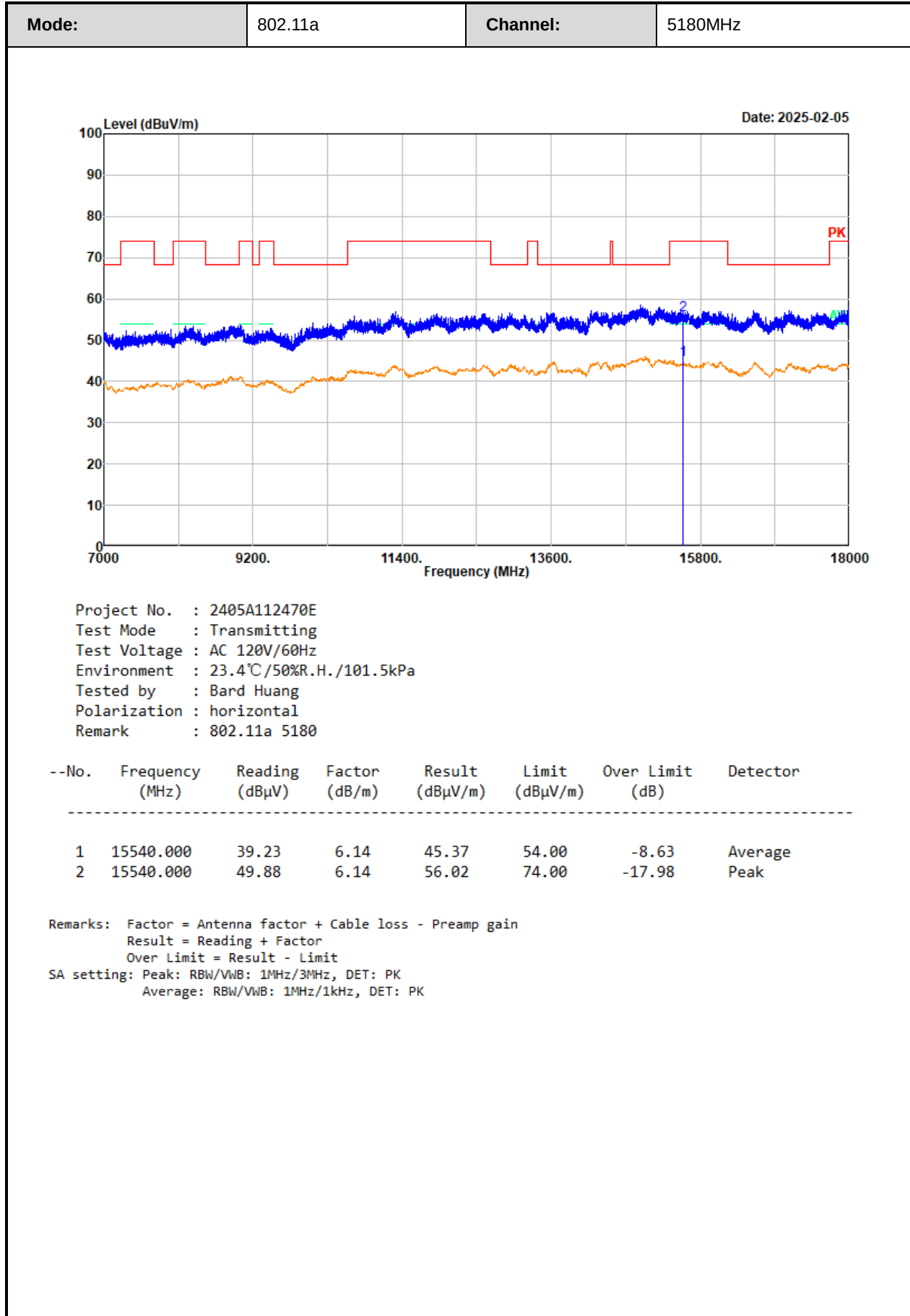
The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

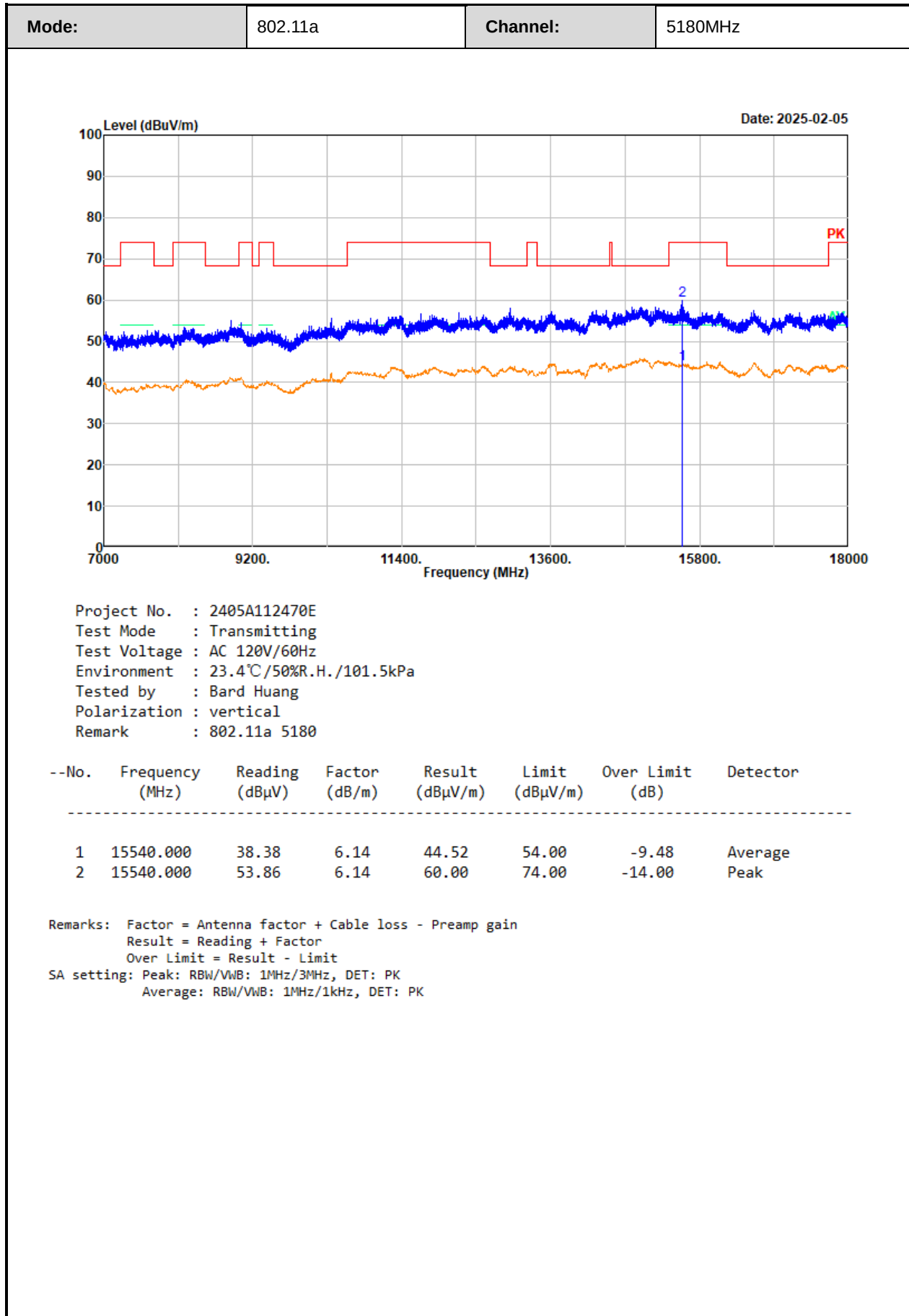
For emissions in 18GHz-40GHz range, all emissions were investigated and in the noise floor level.

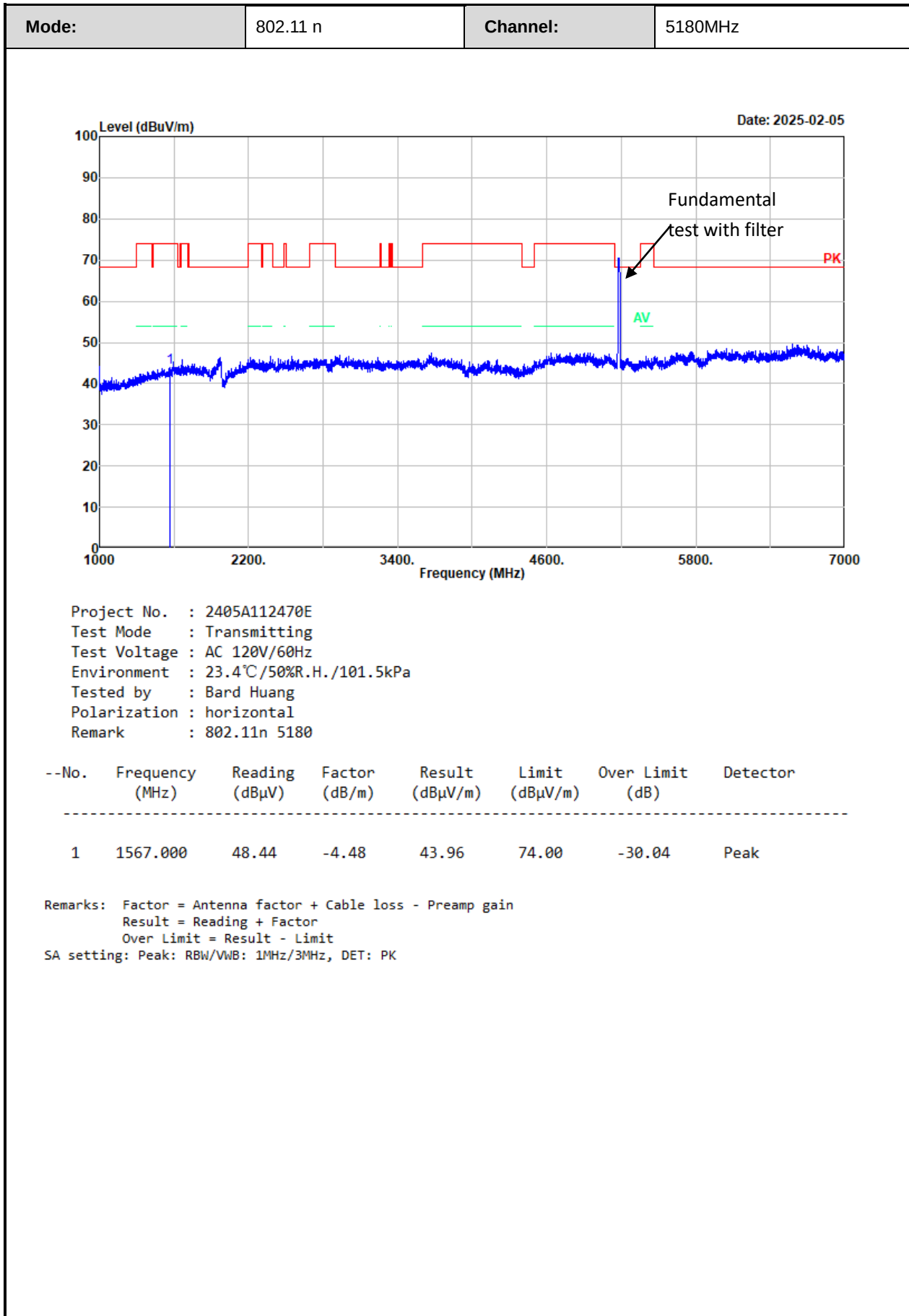
Test plot for example as below:

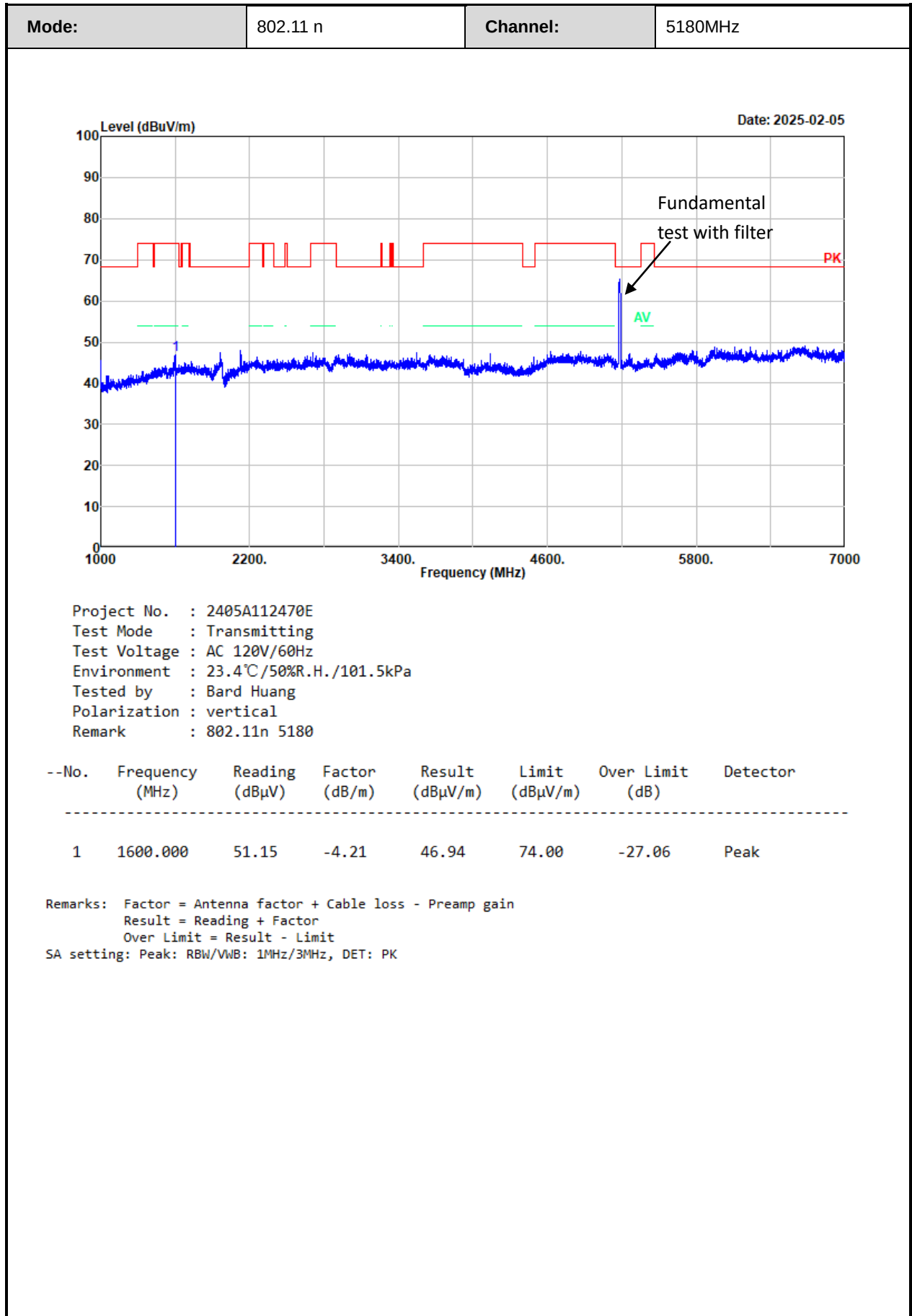


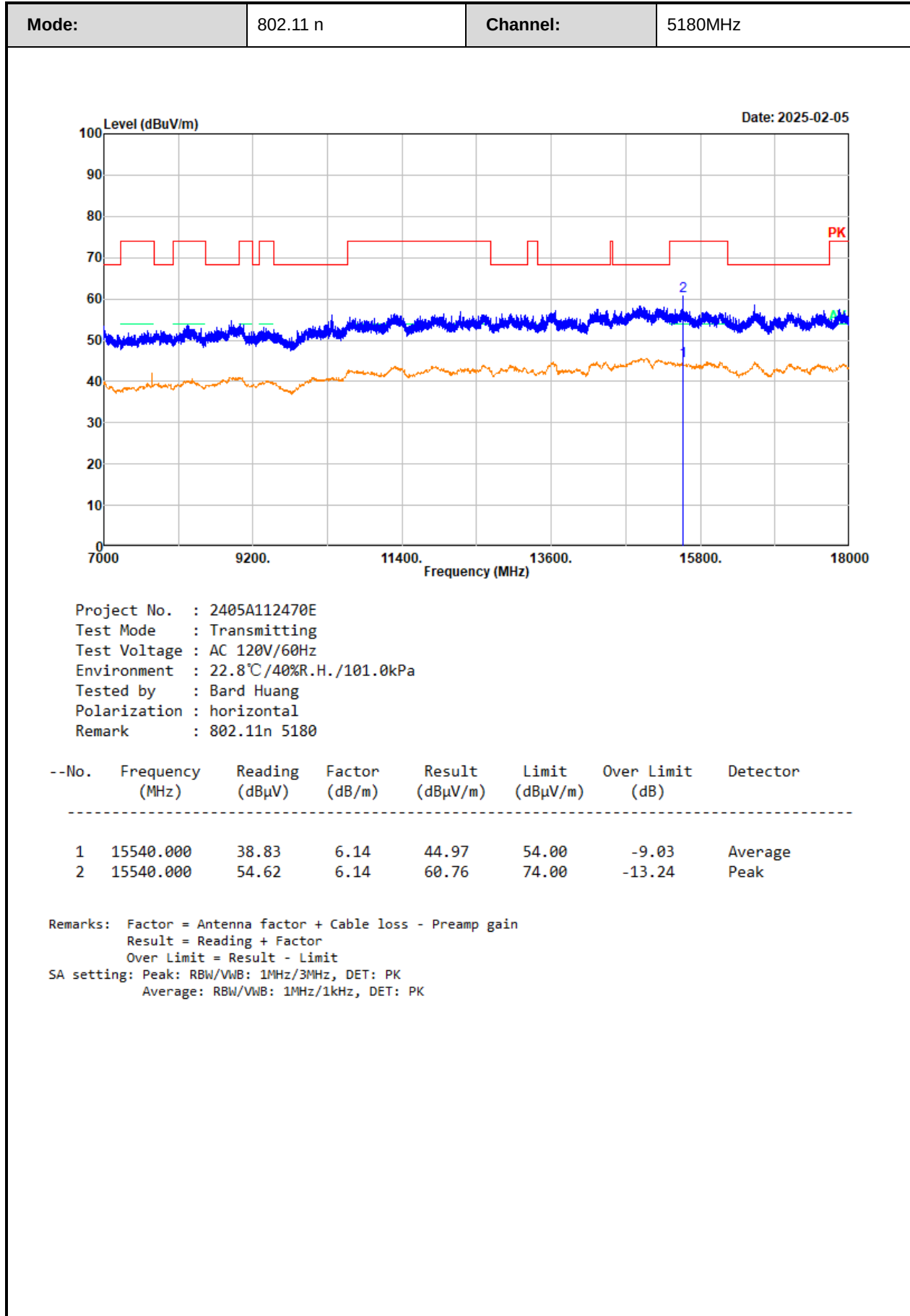


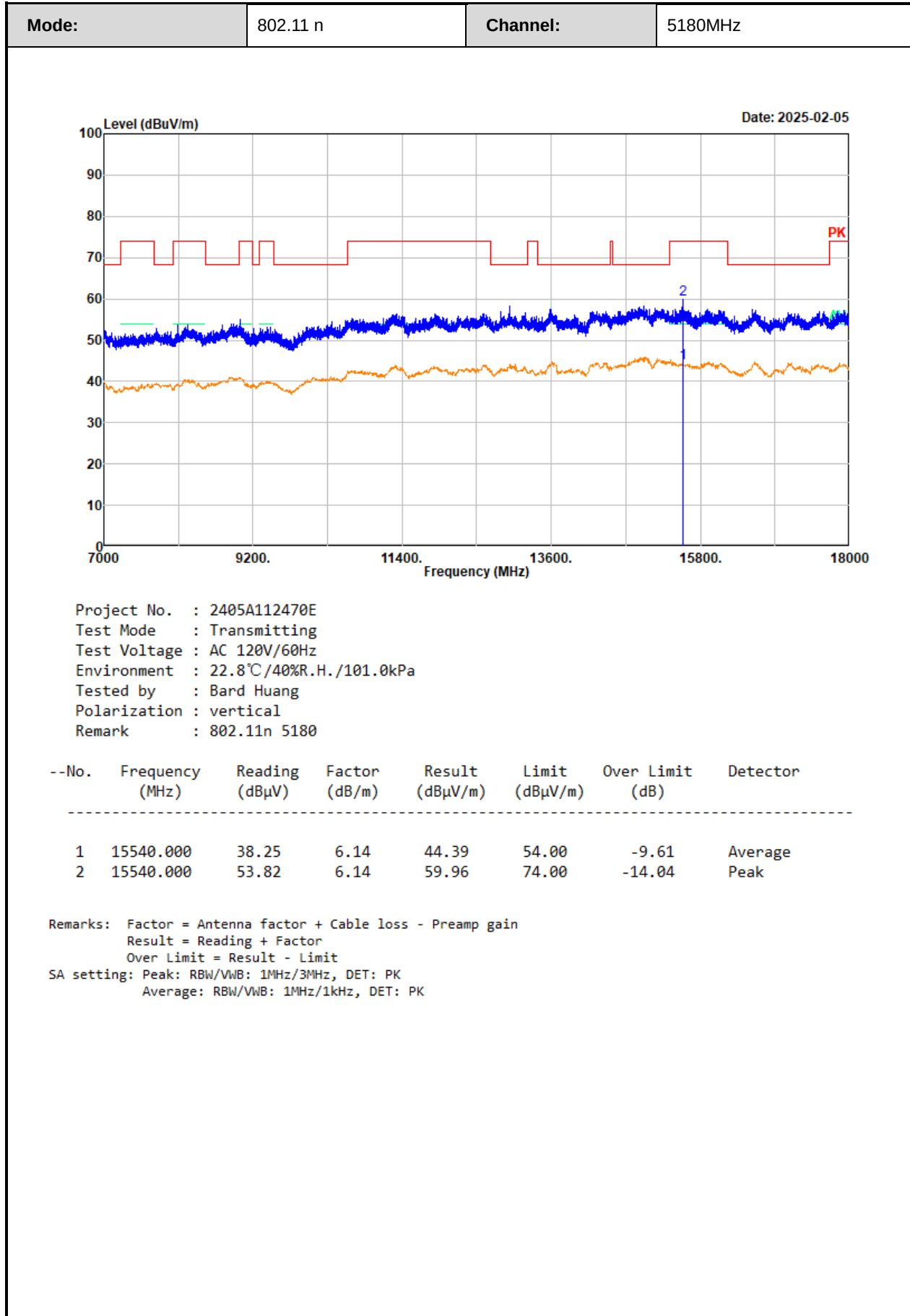


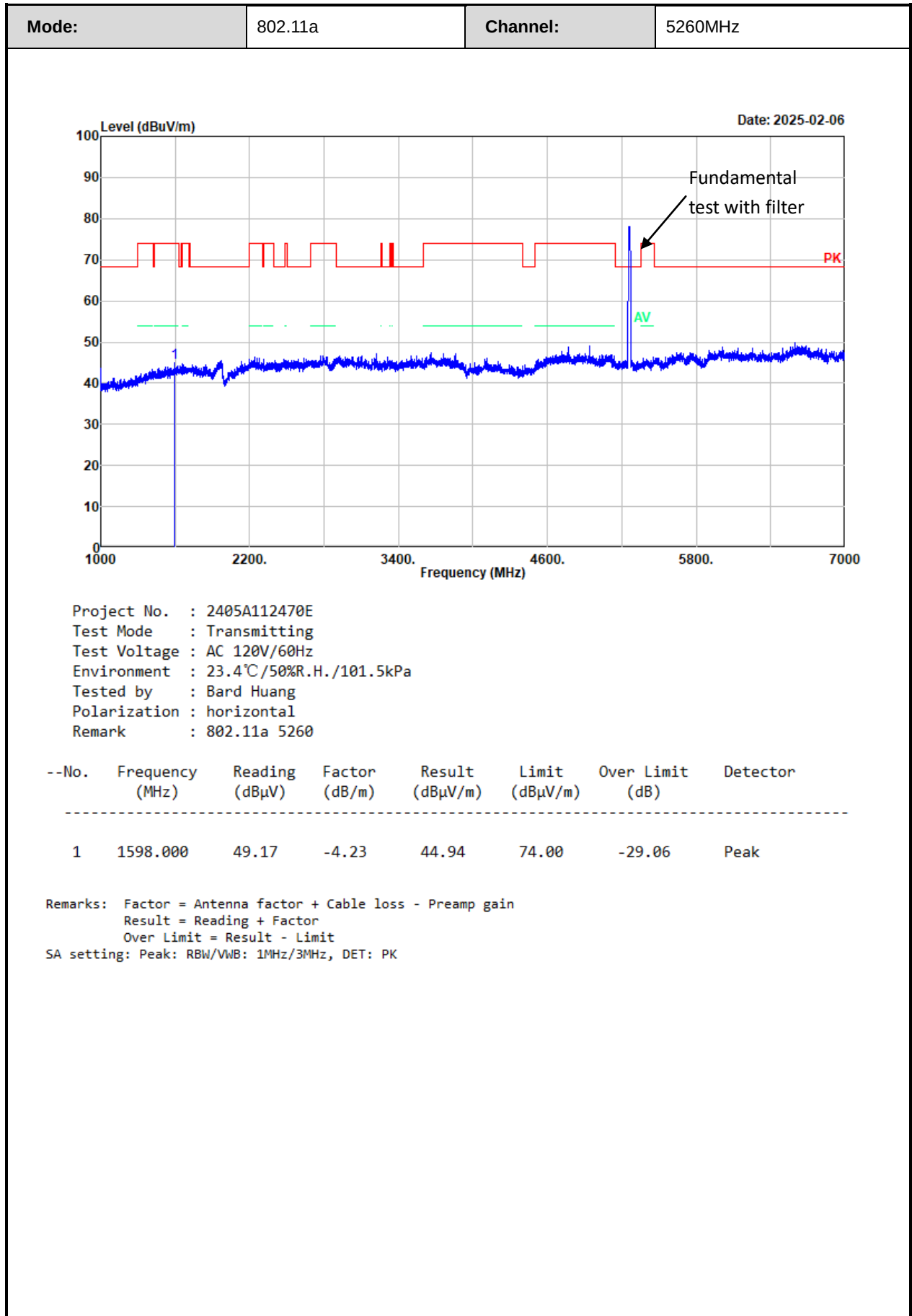


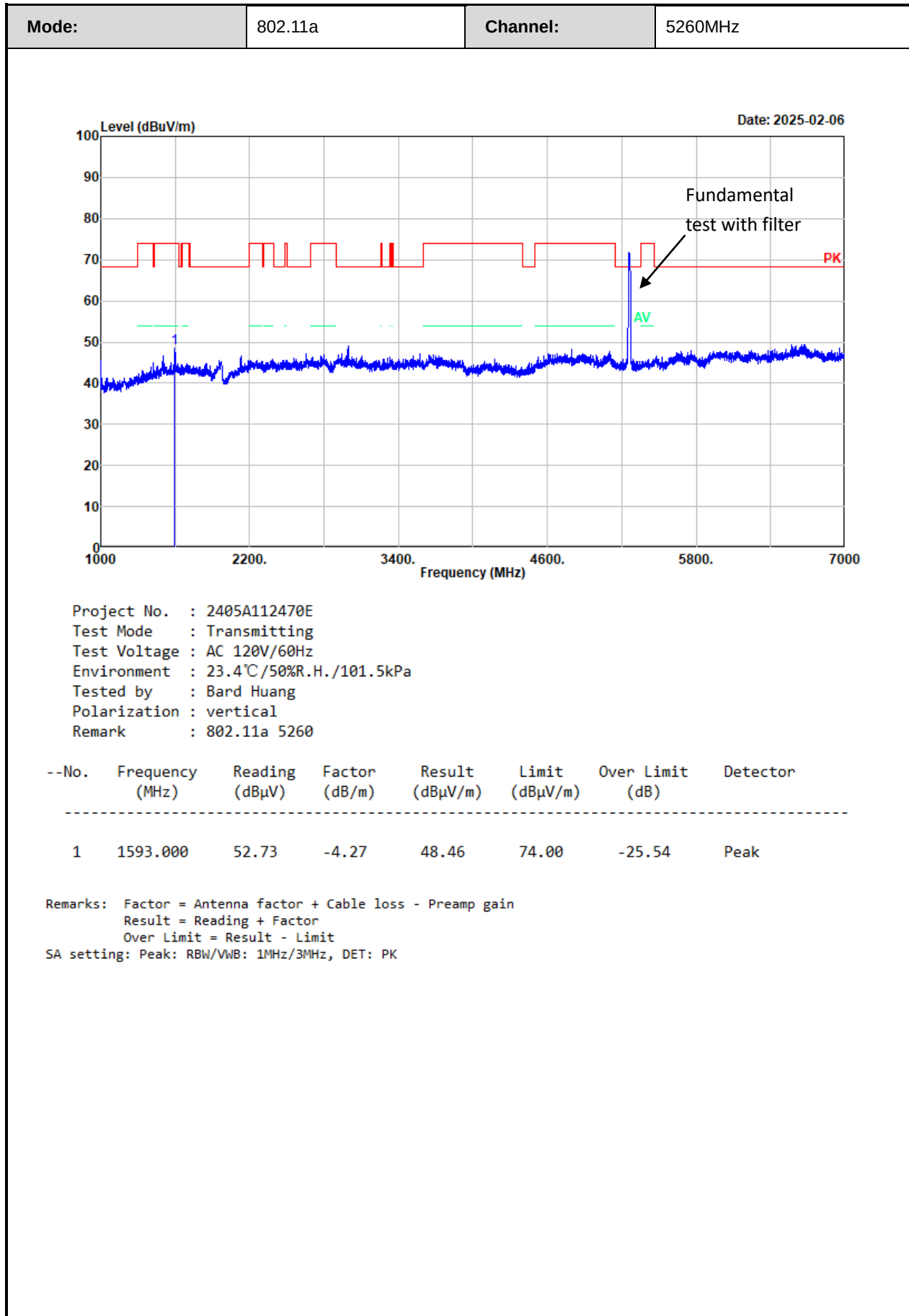


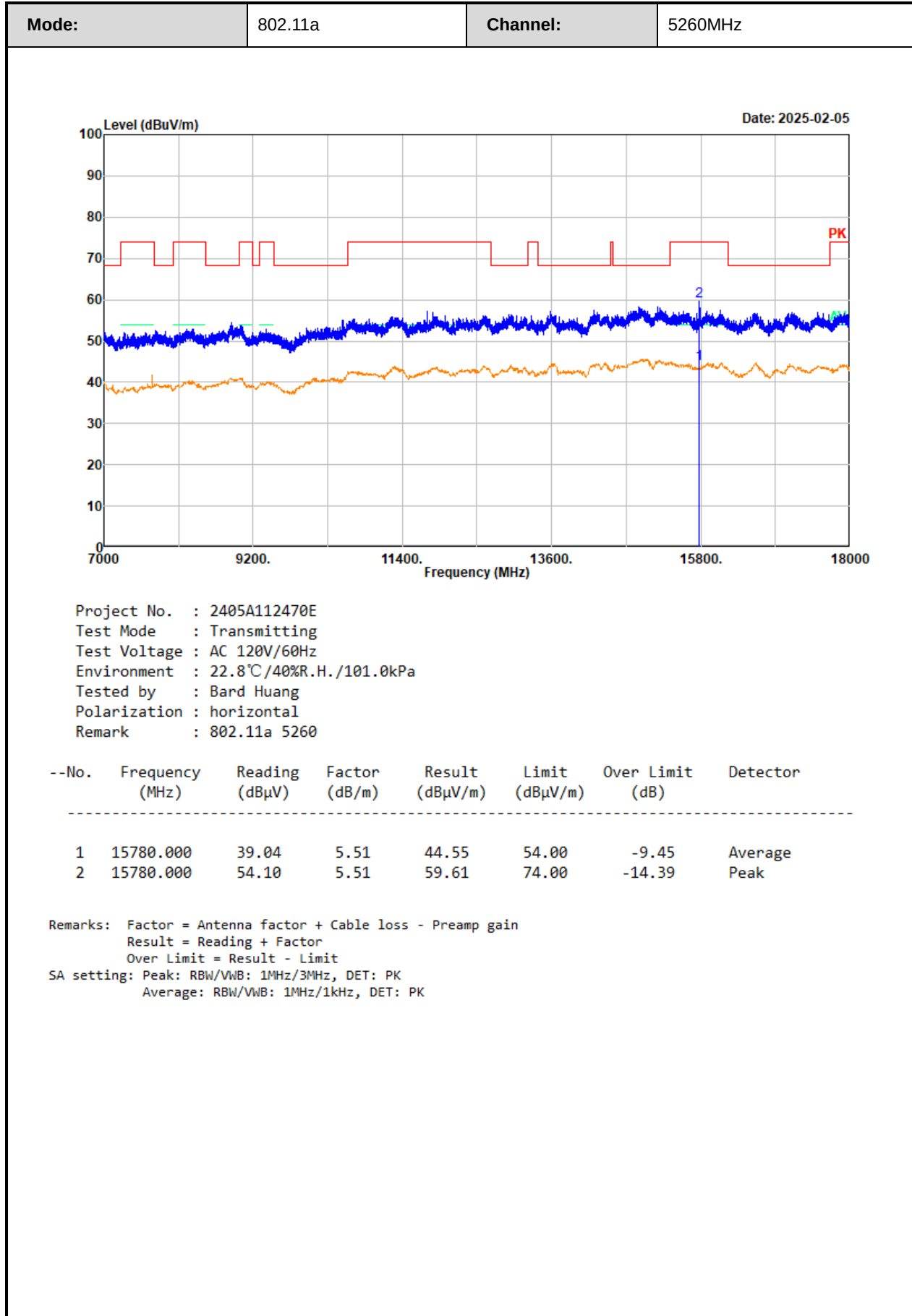


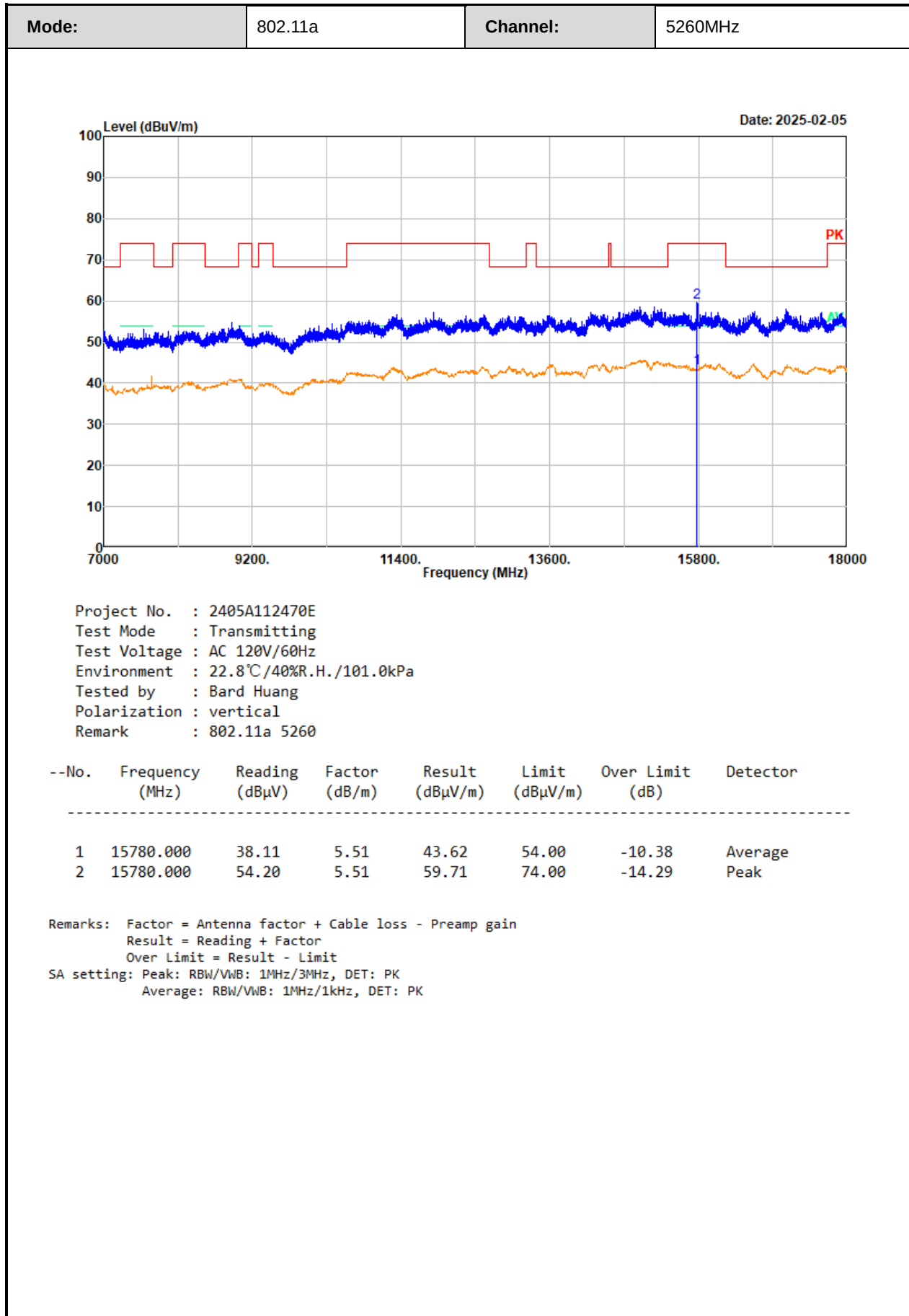


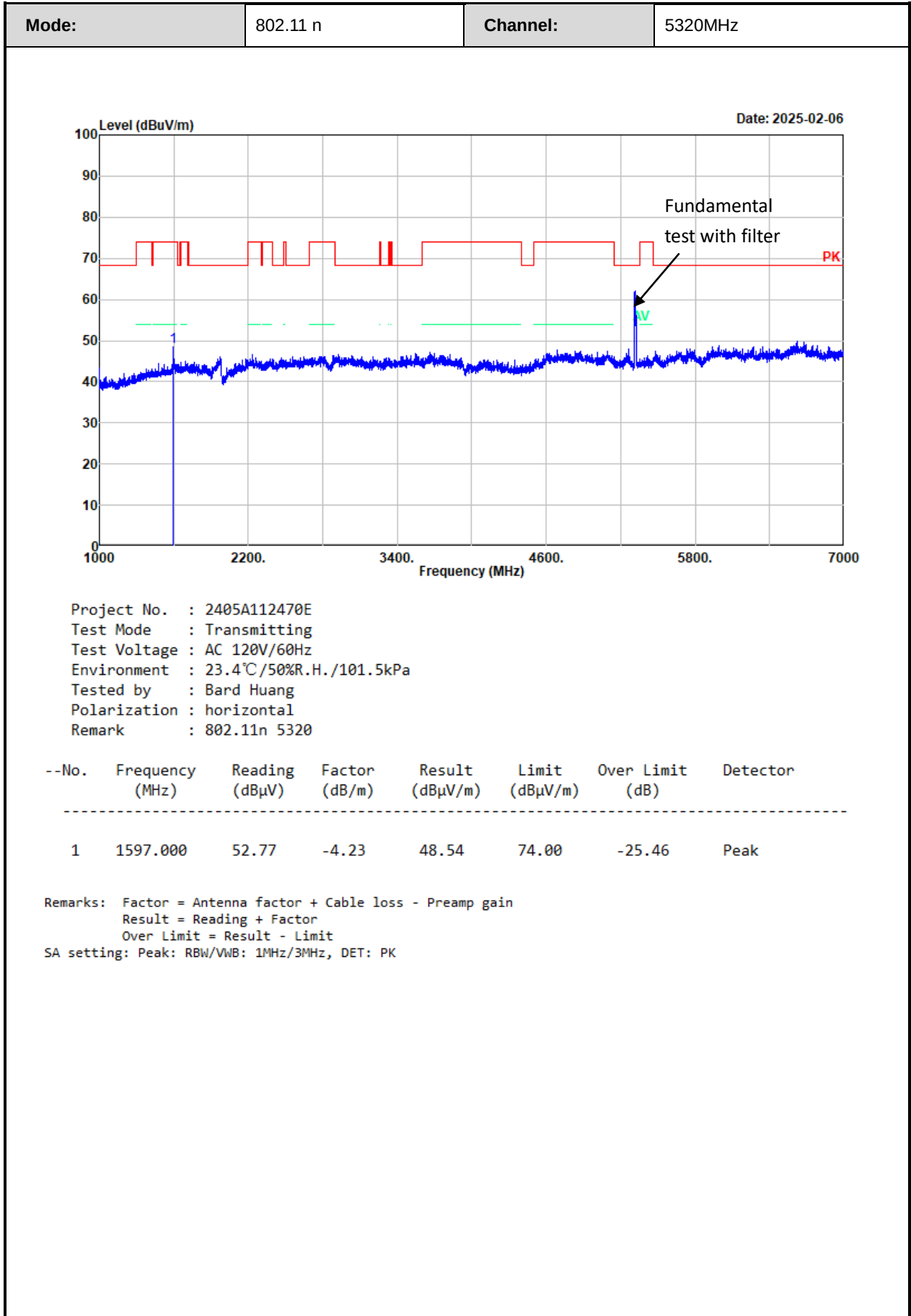


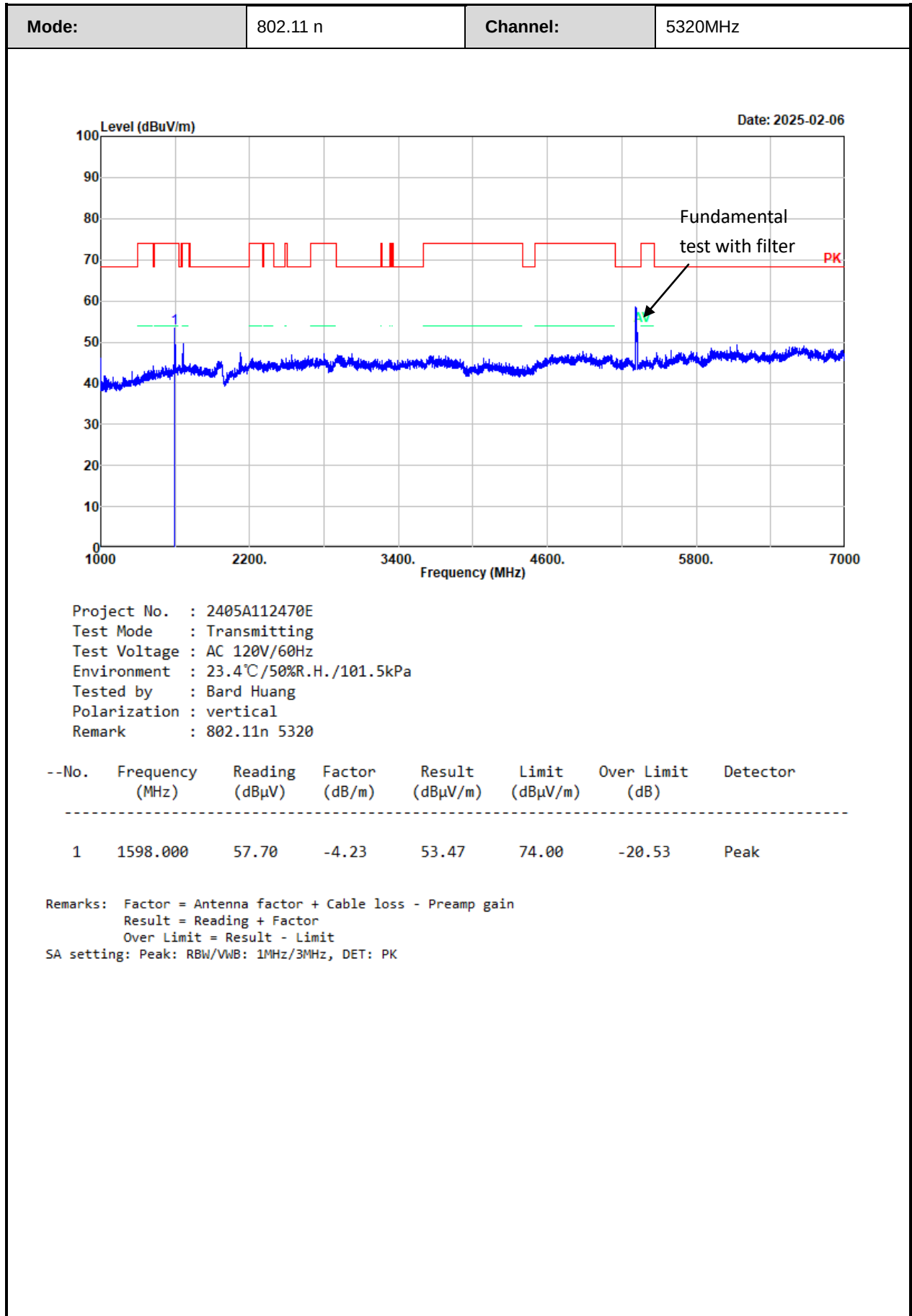


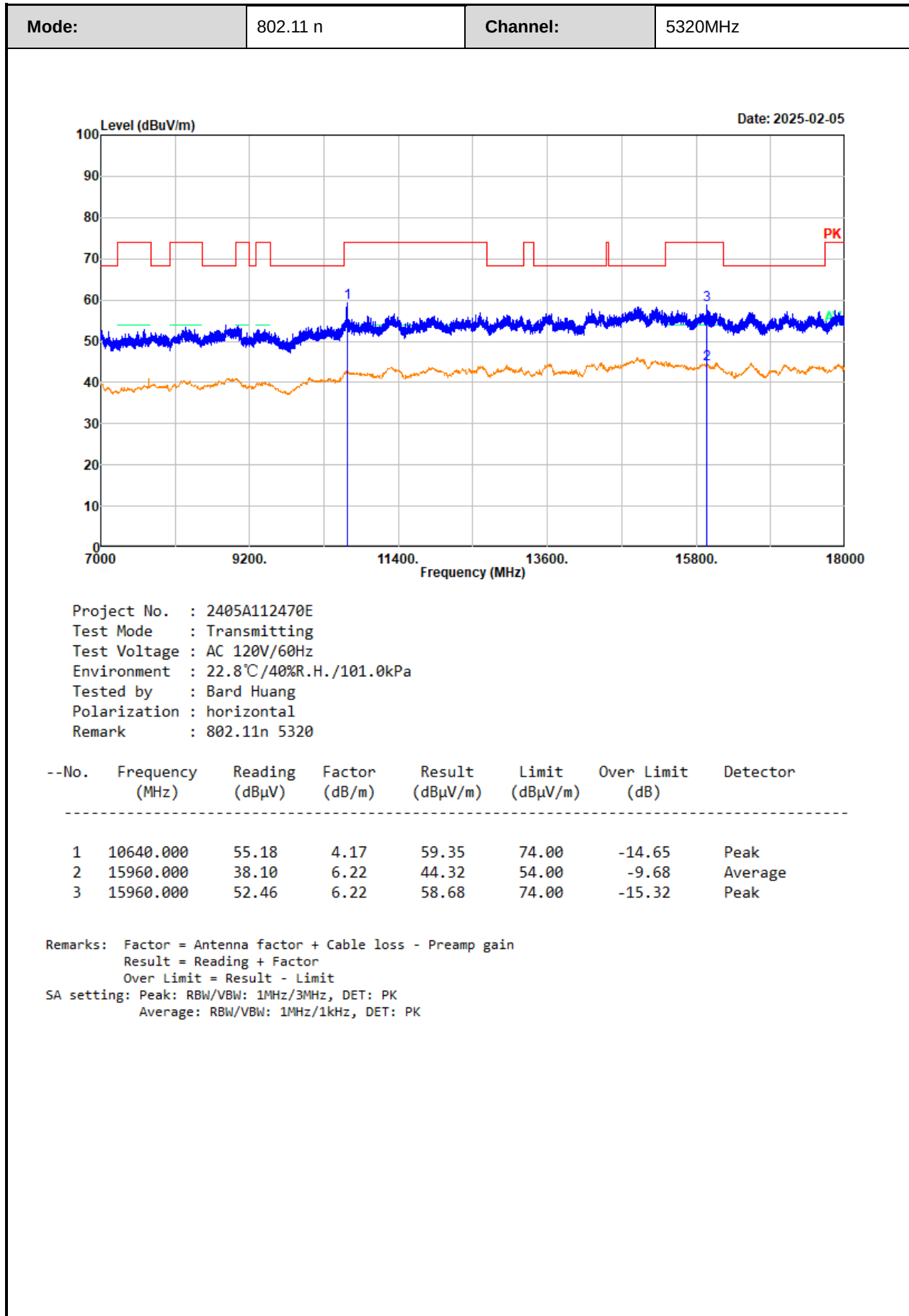


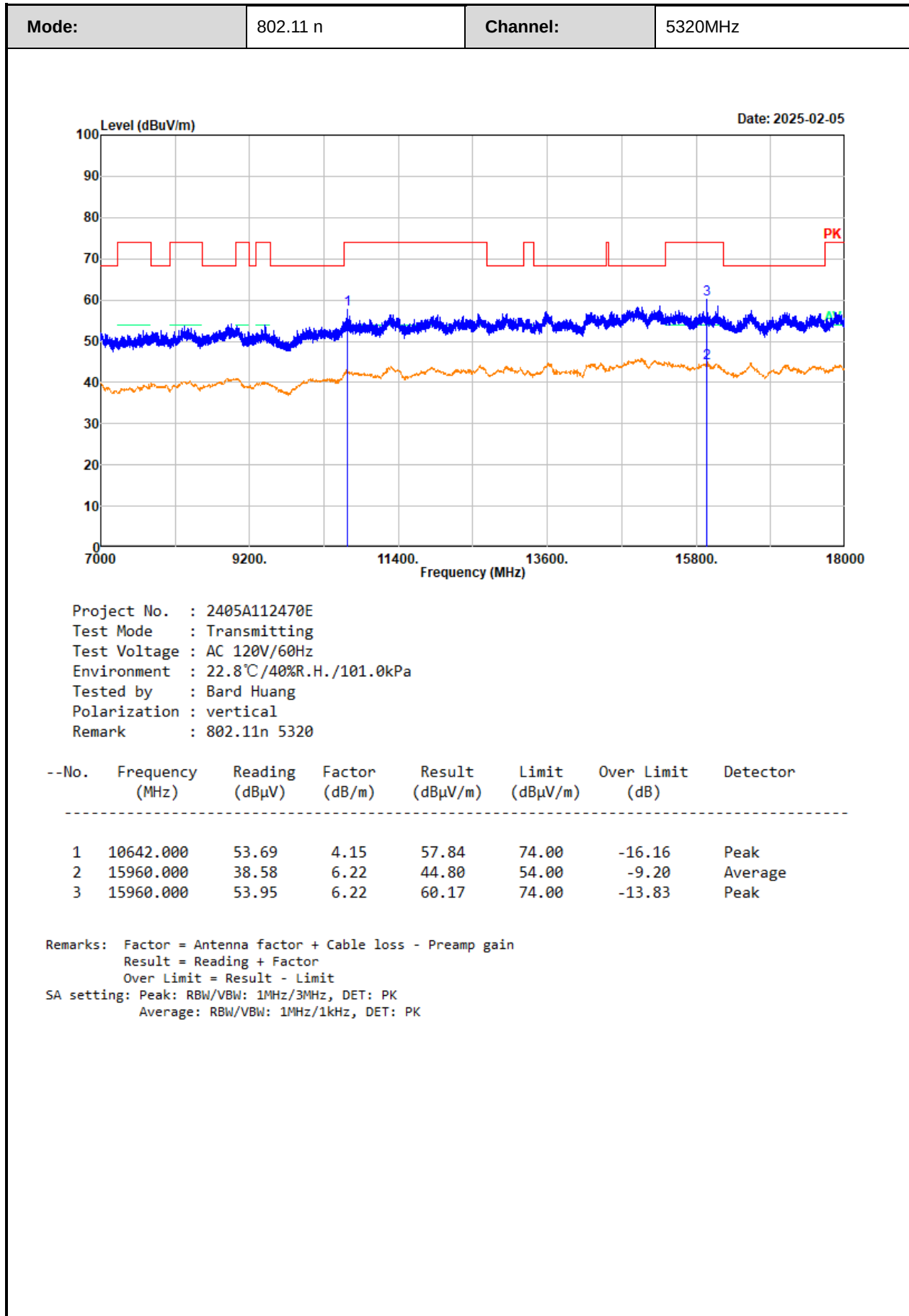


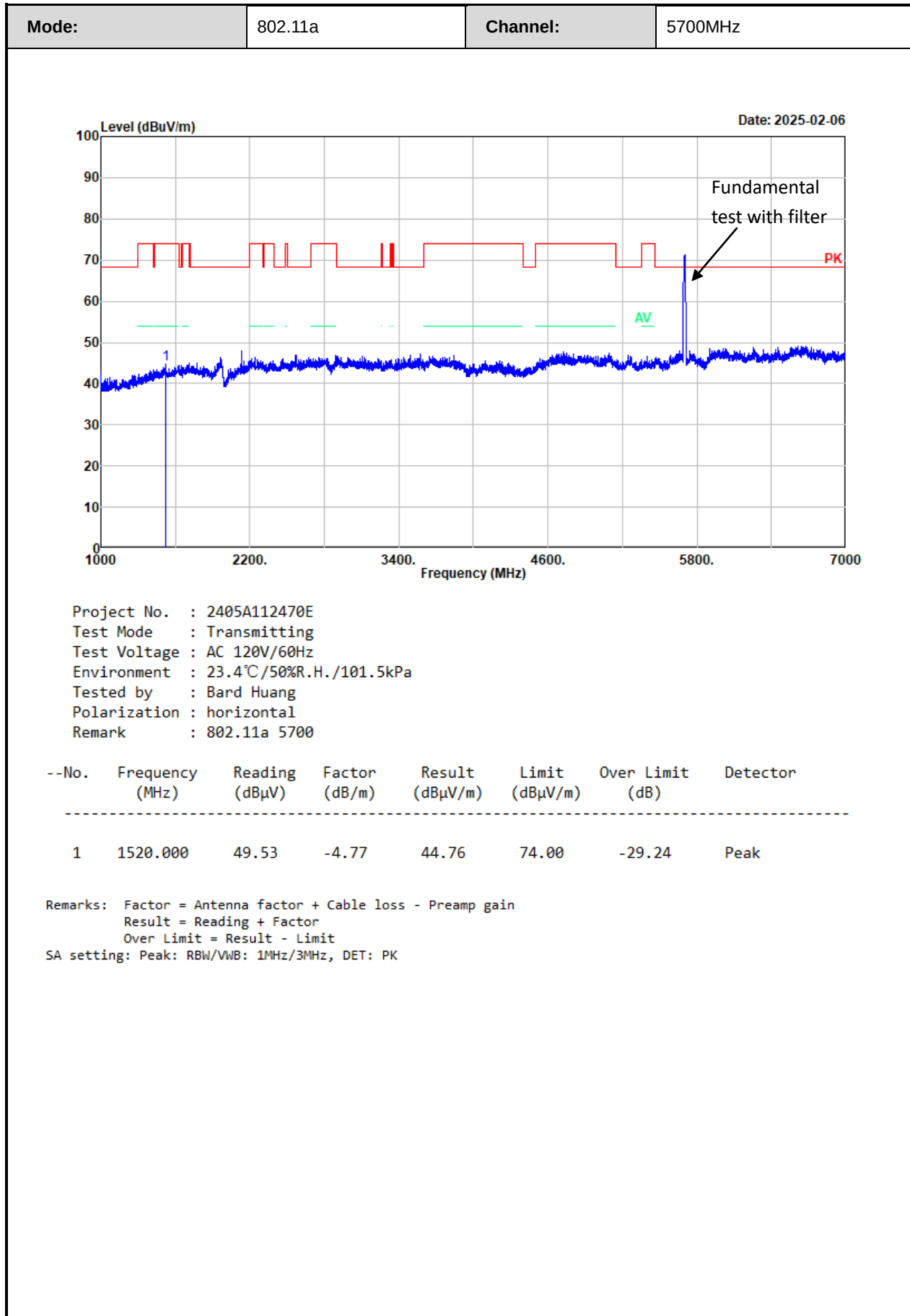


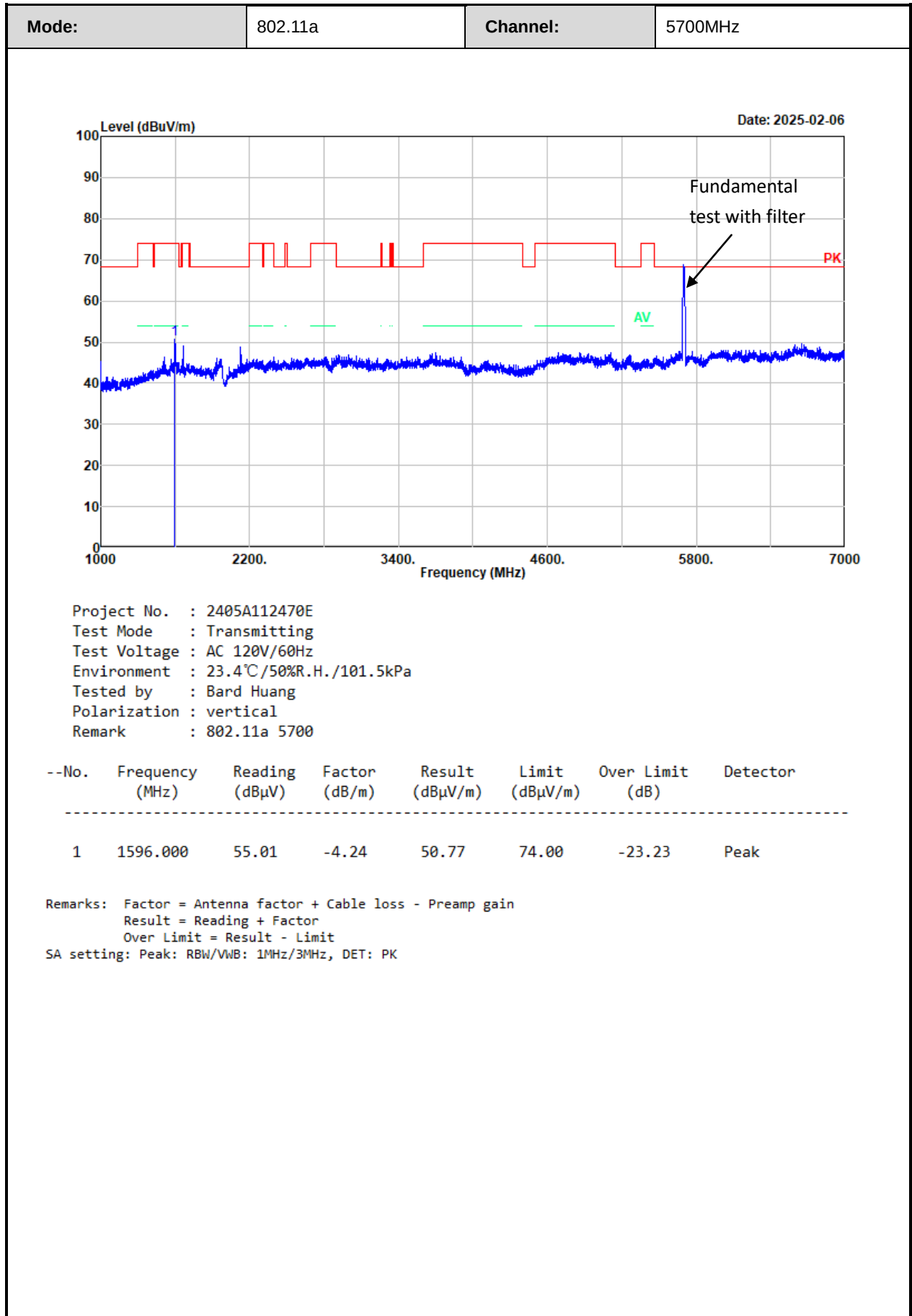


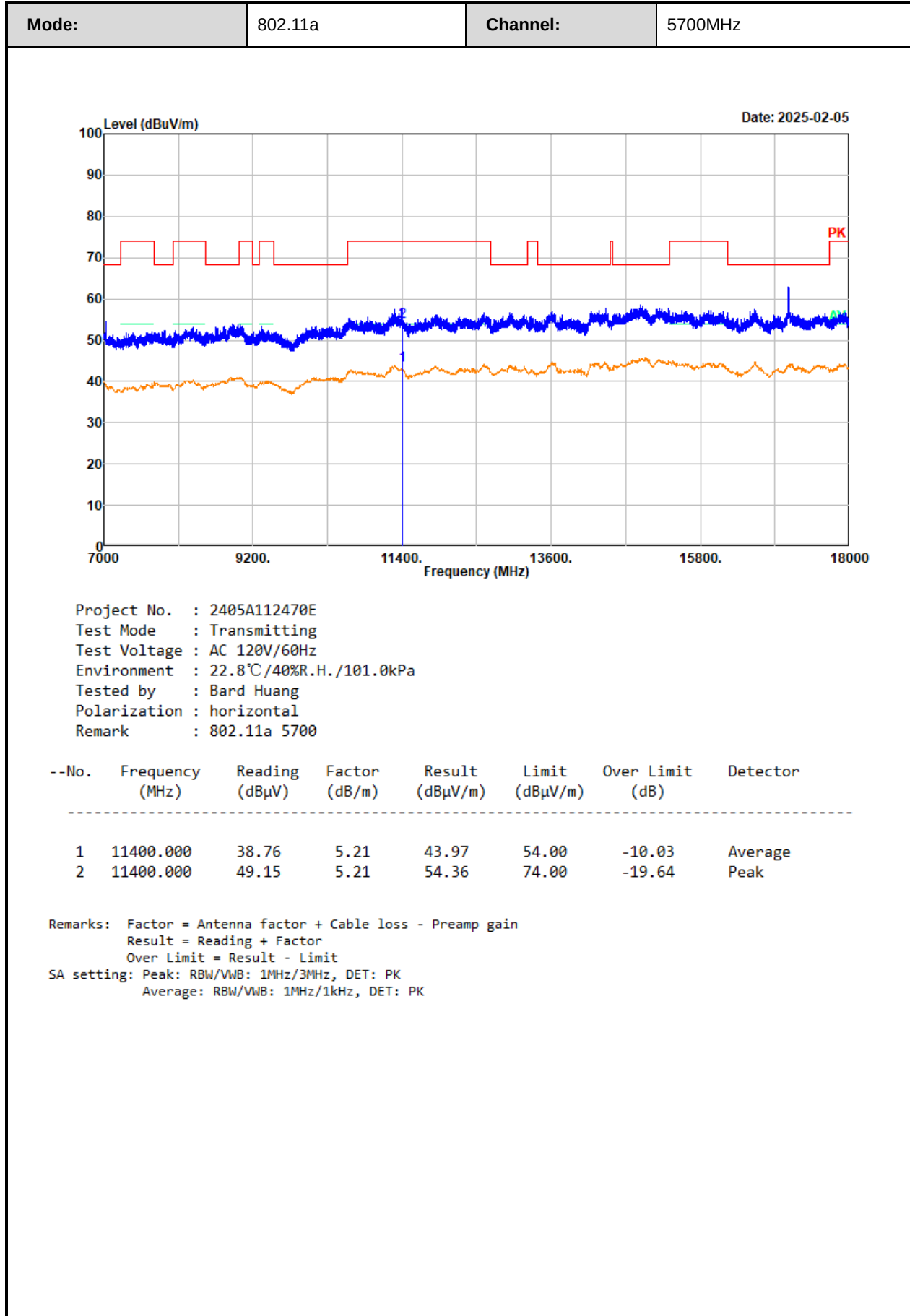


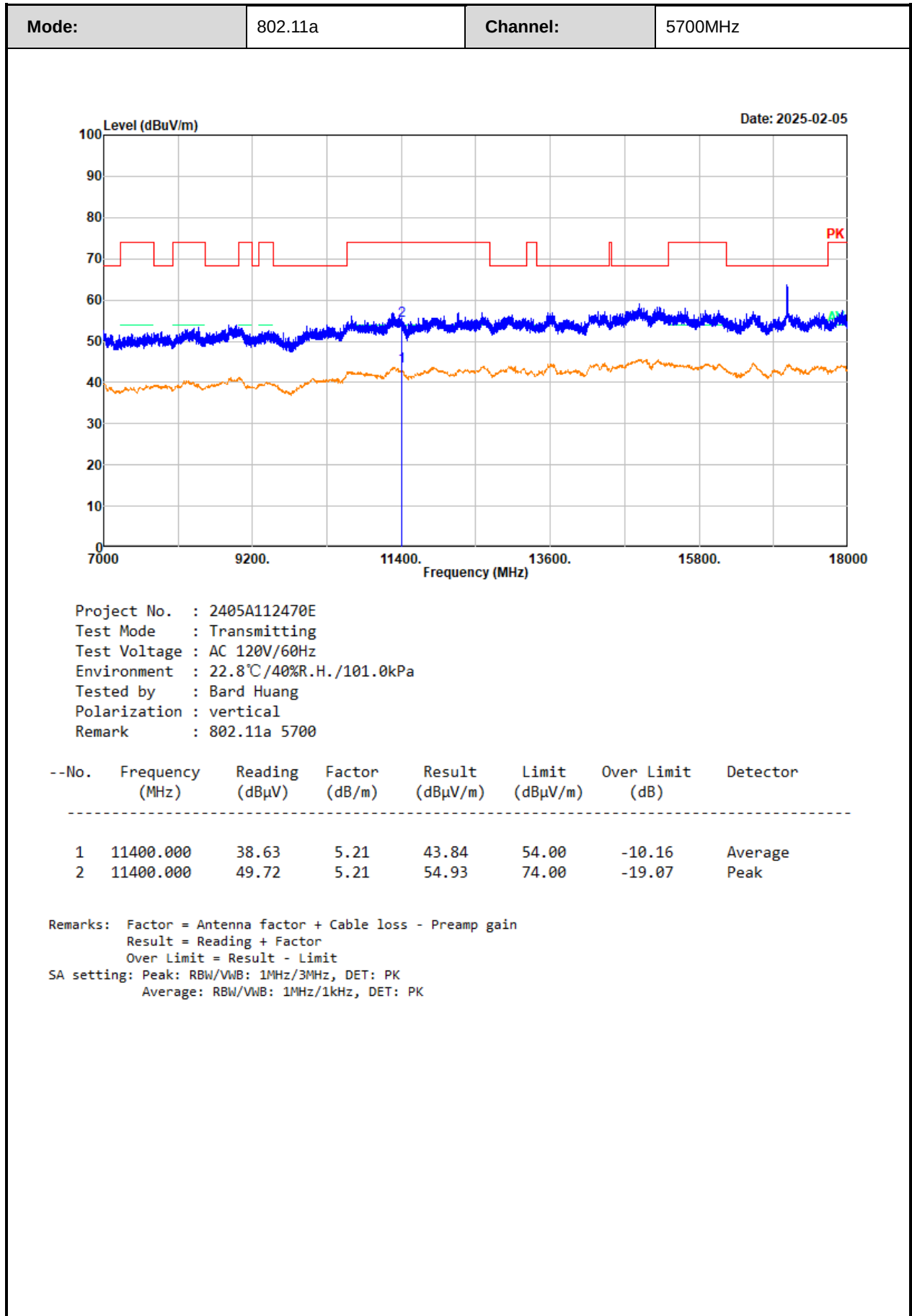


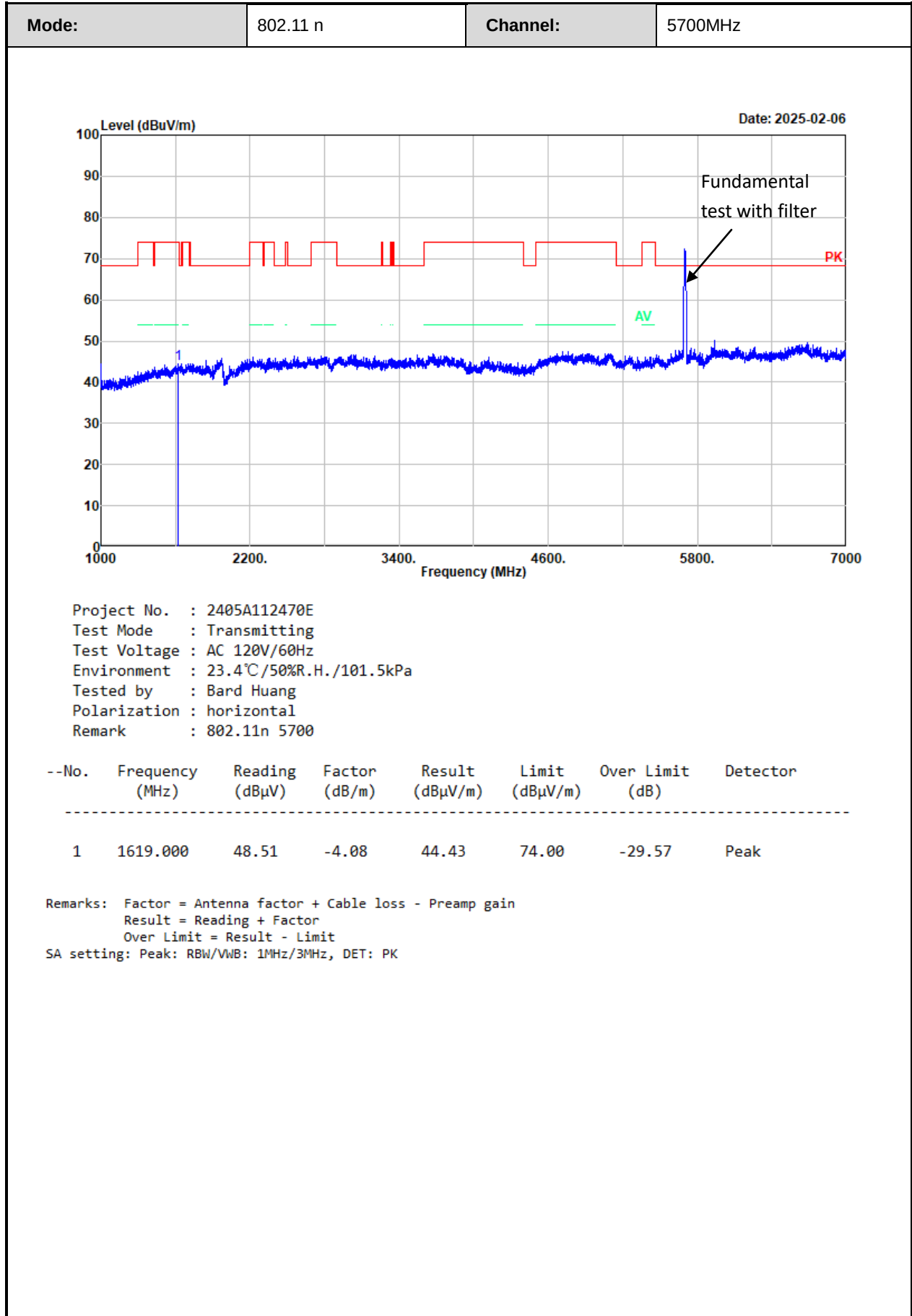


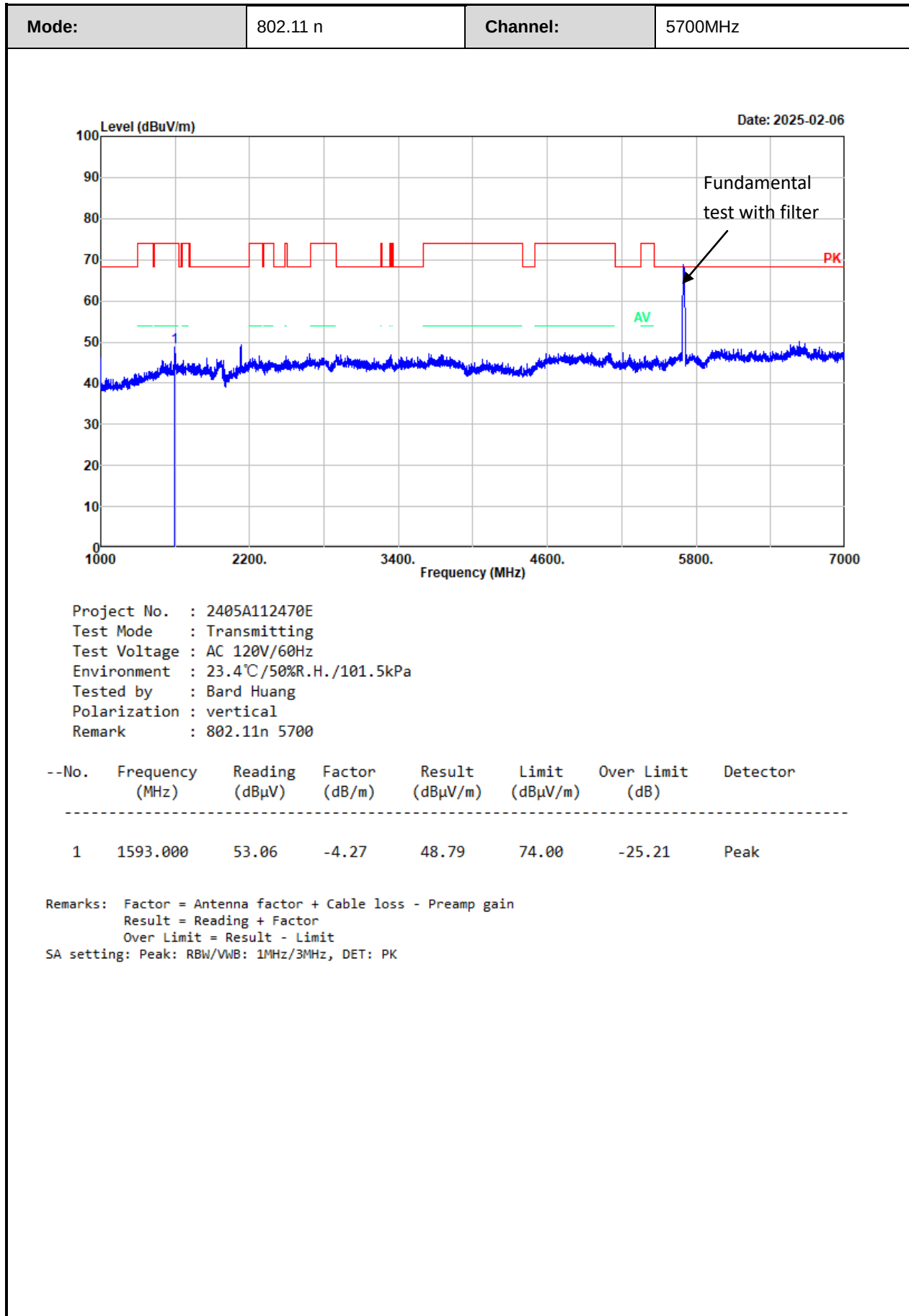


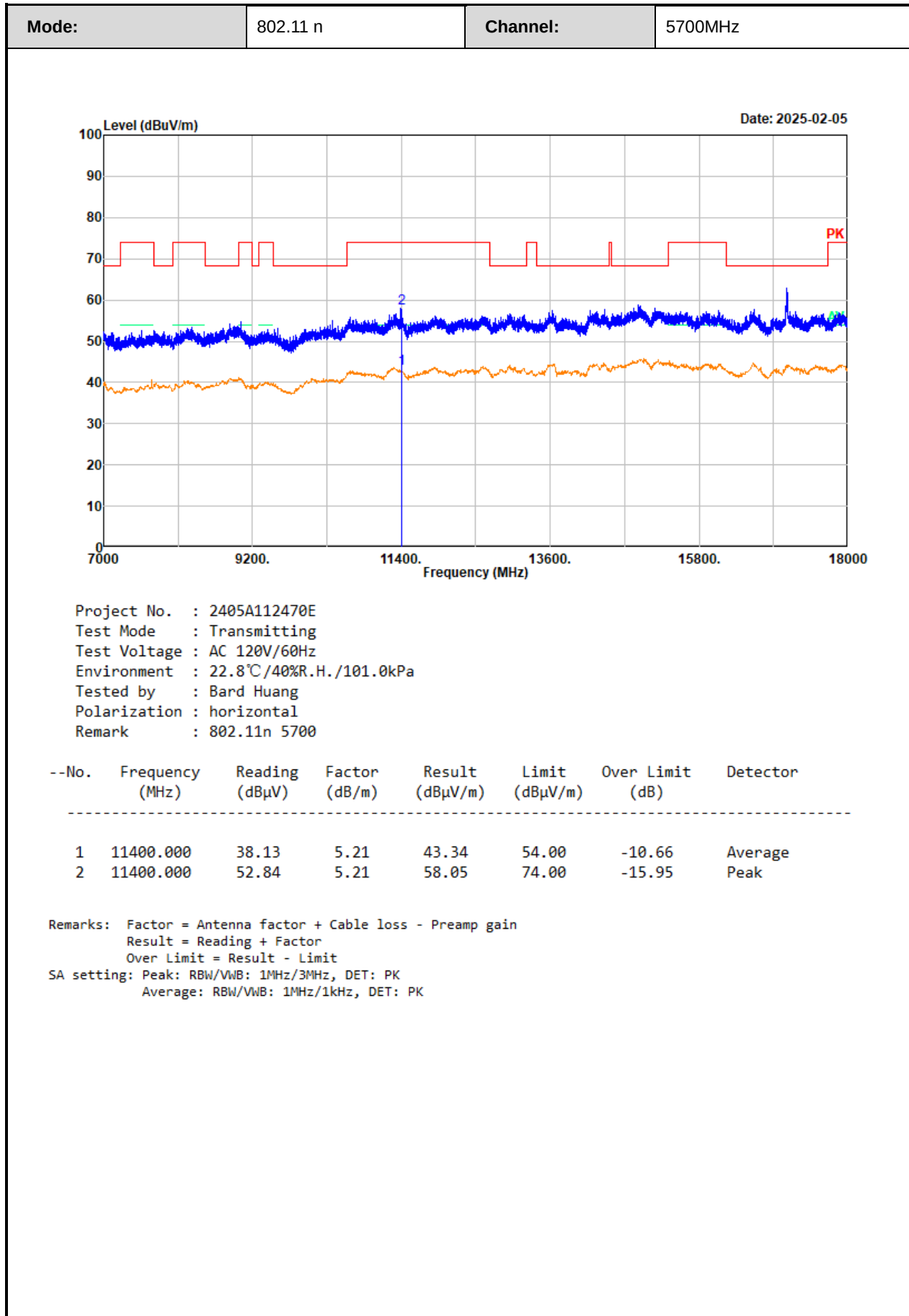


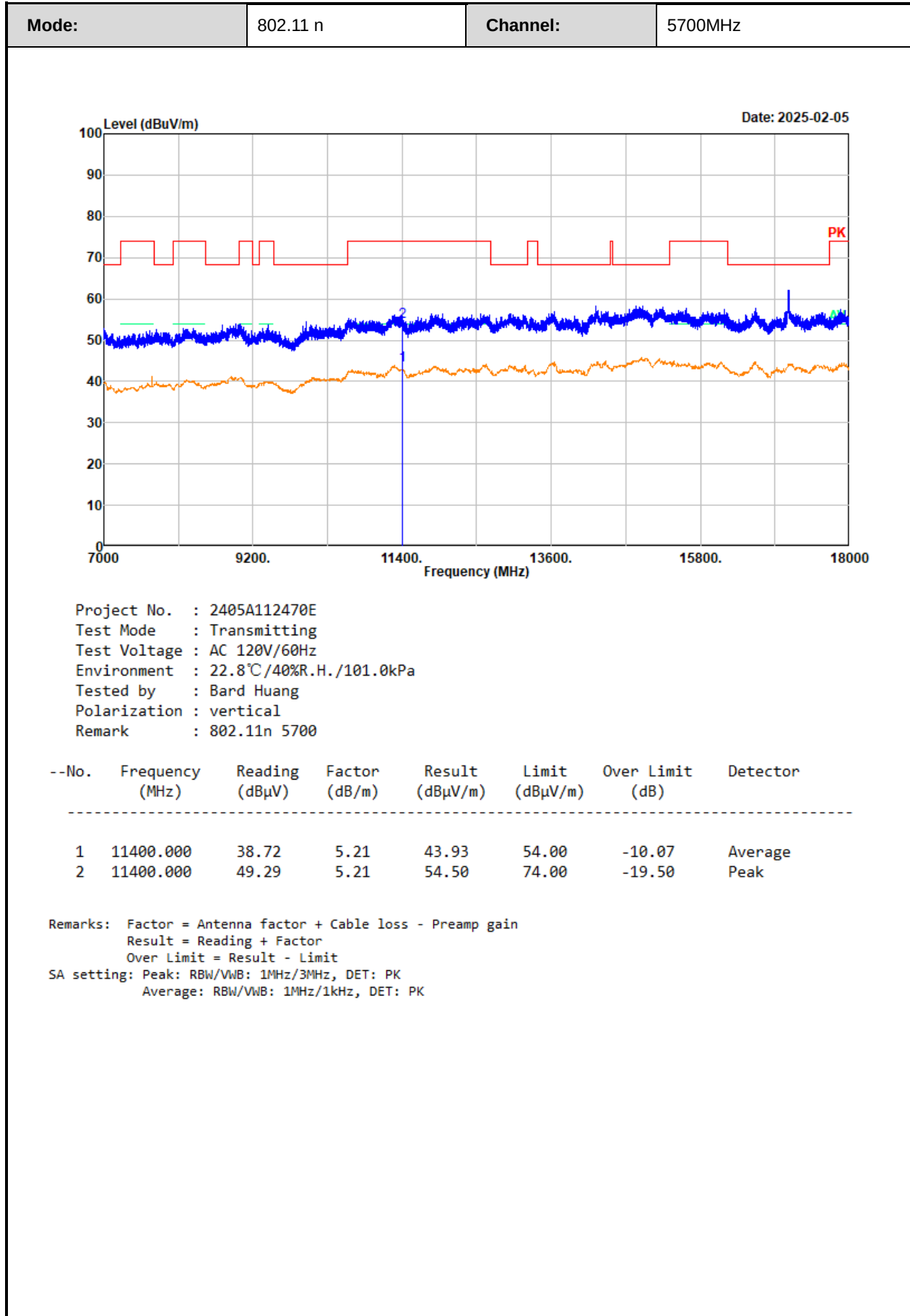


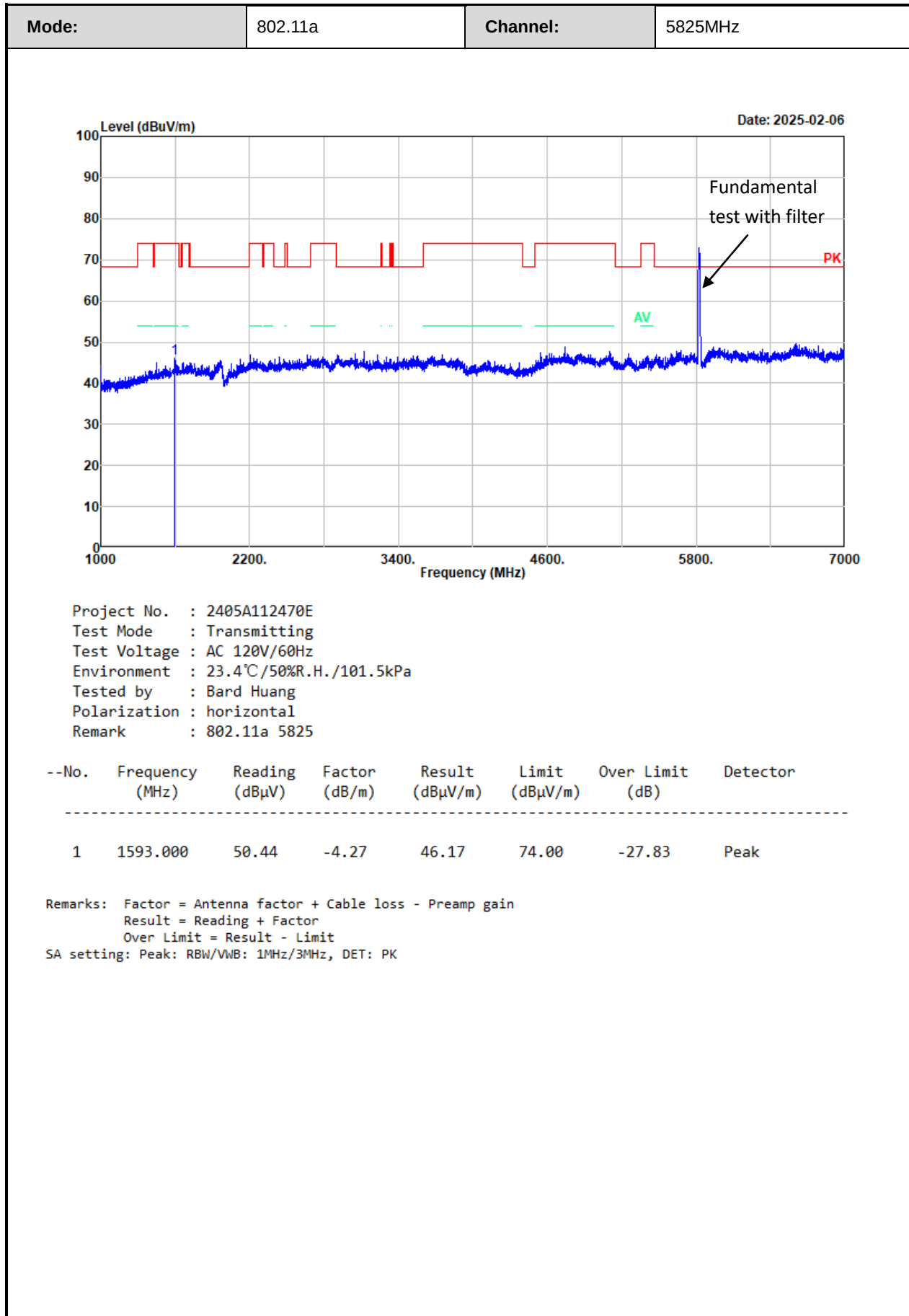


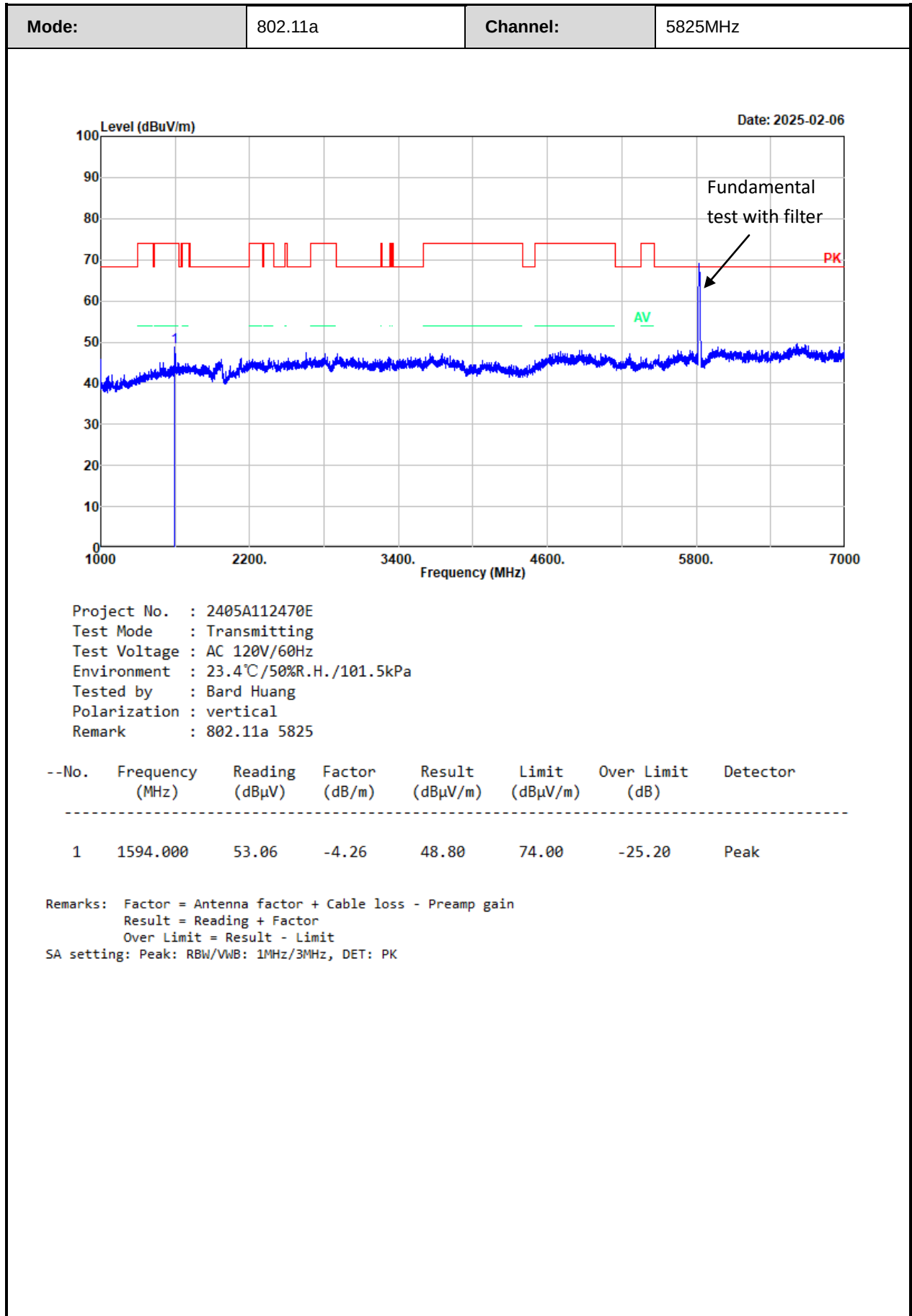


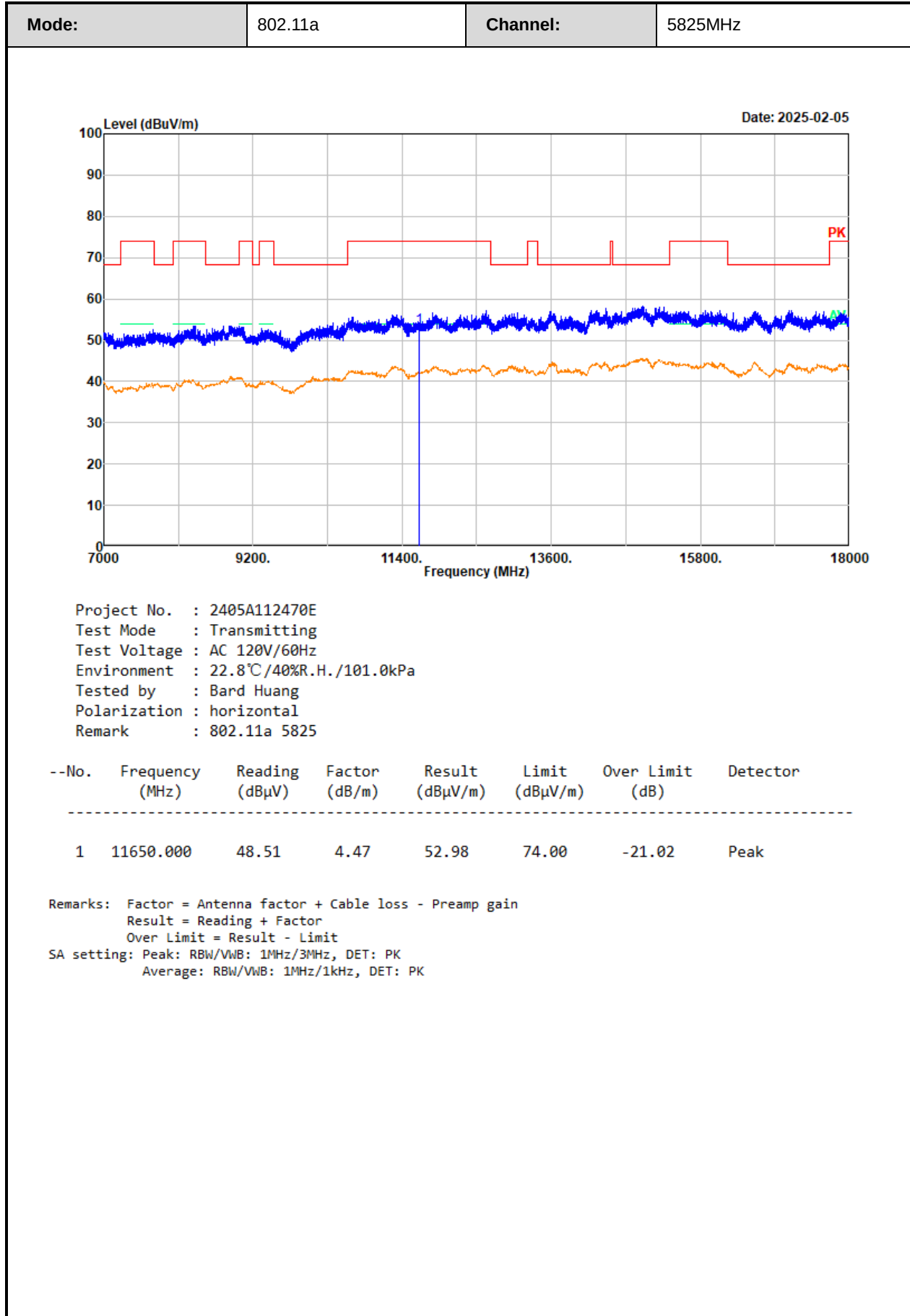


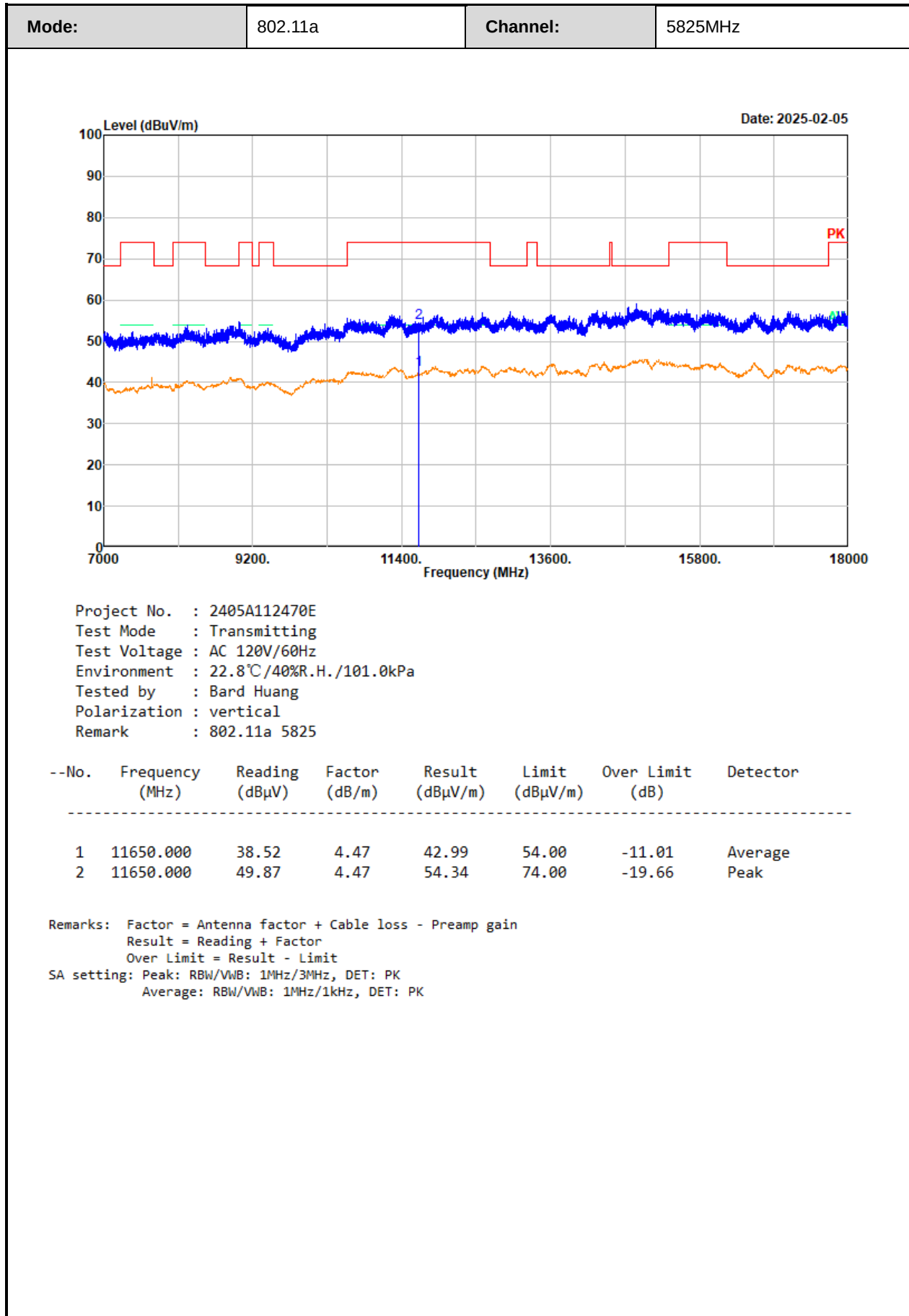


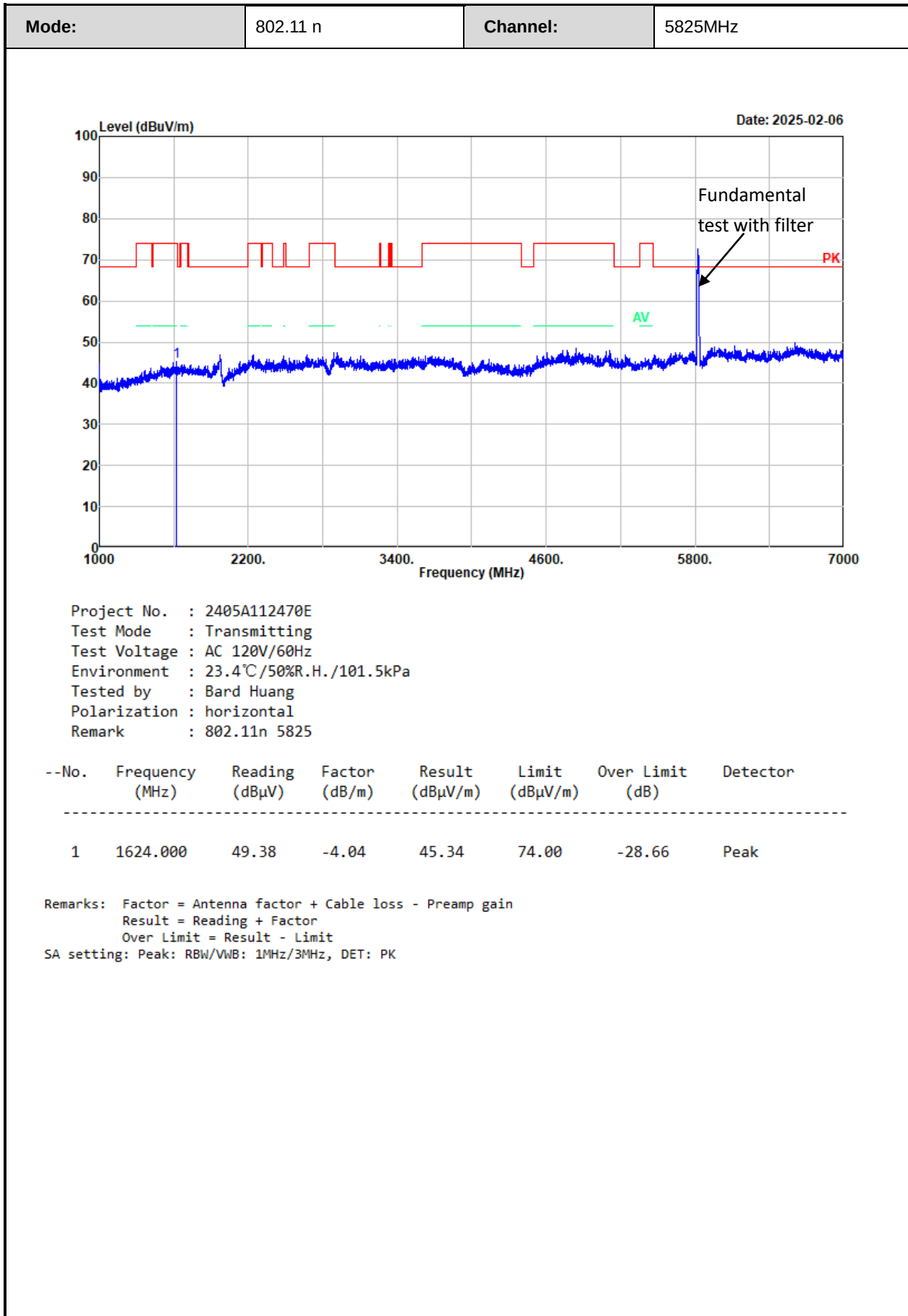


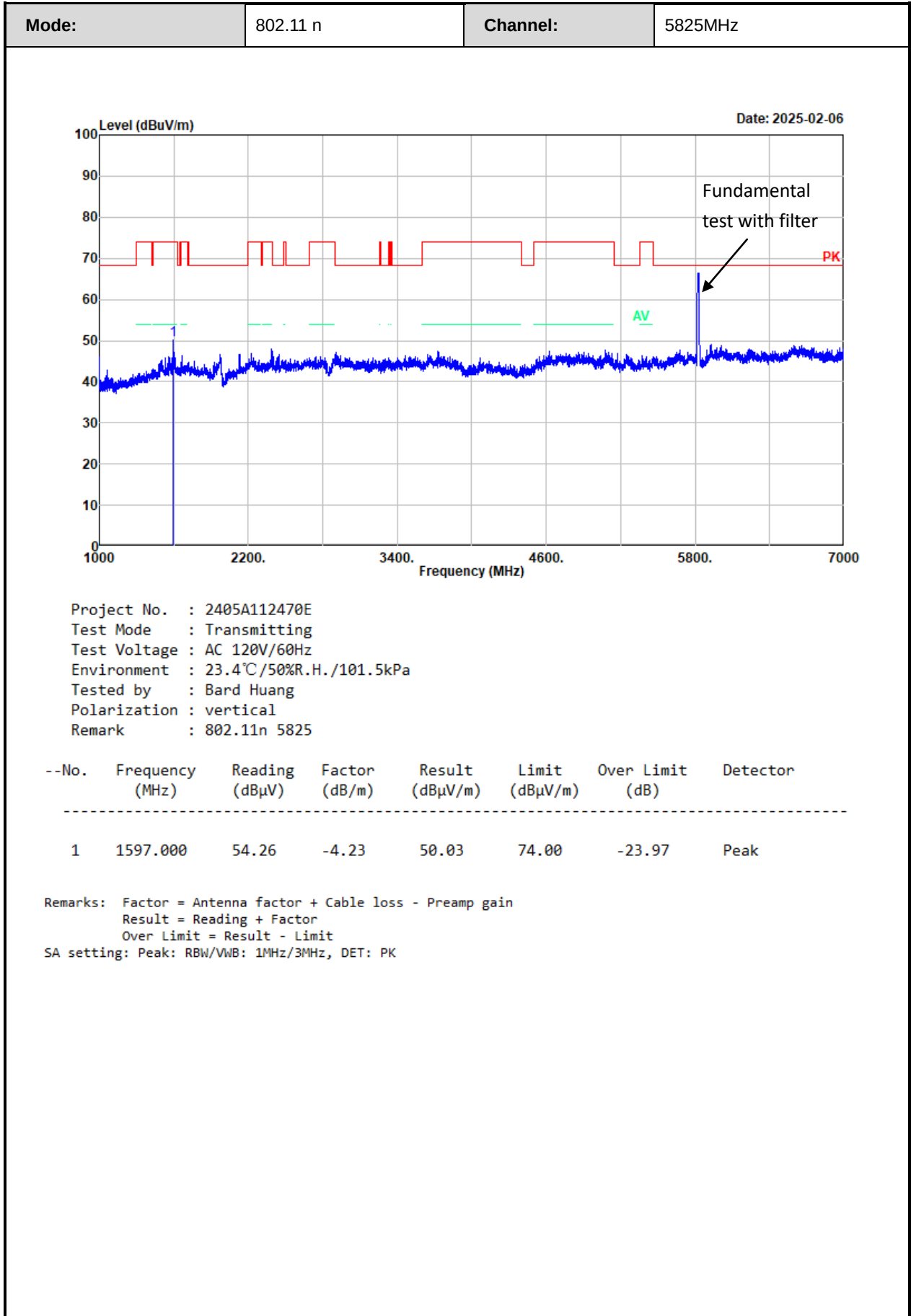


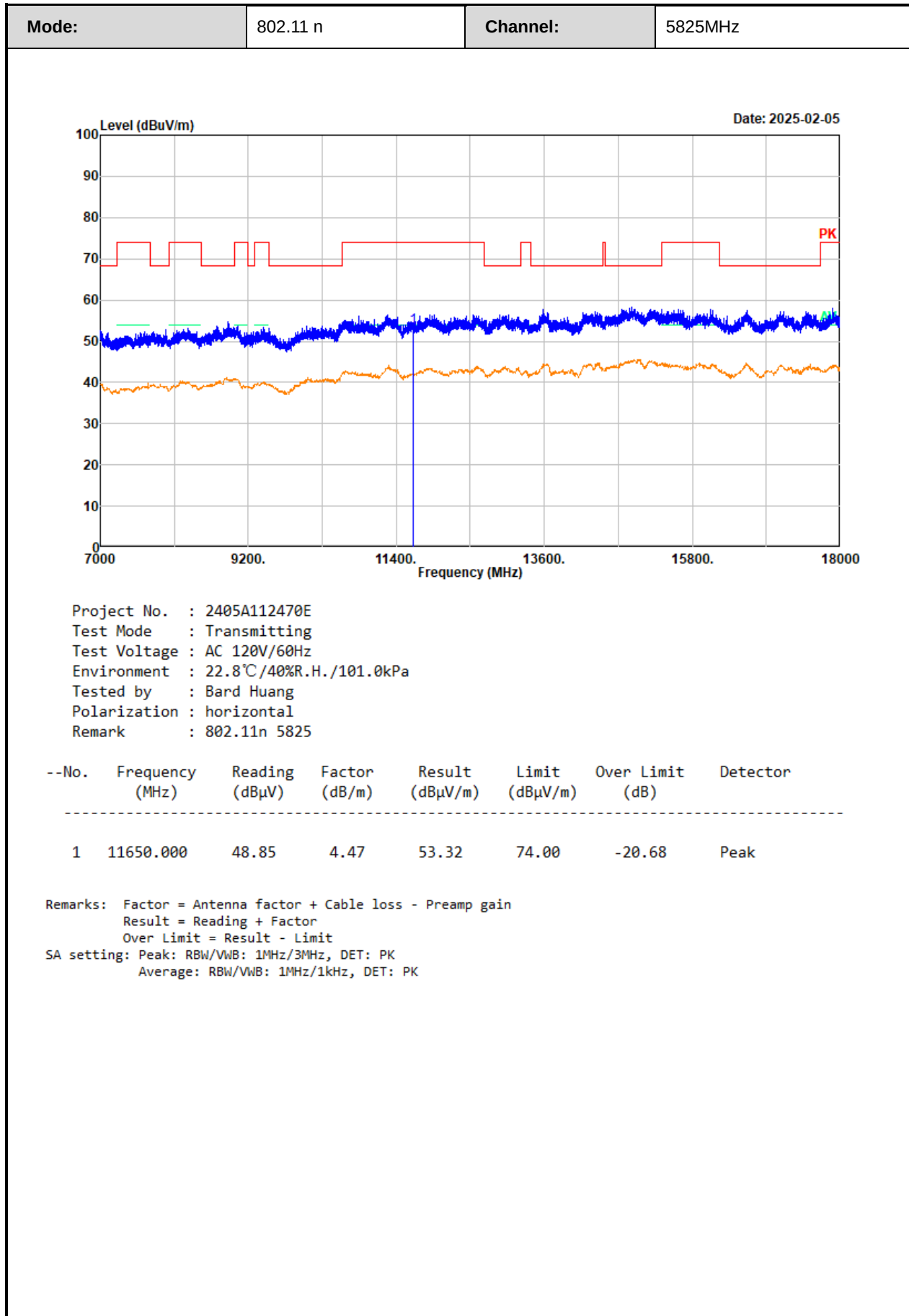


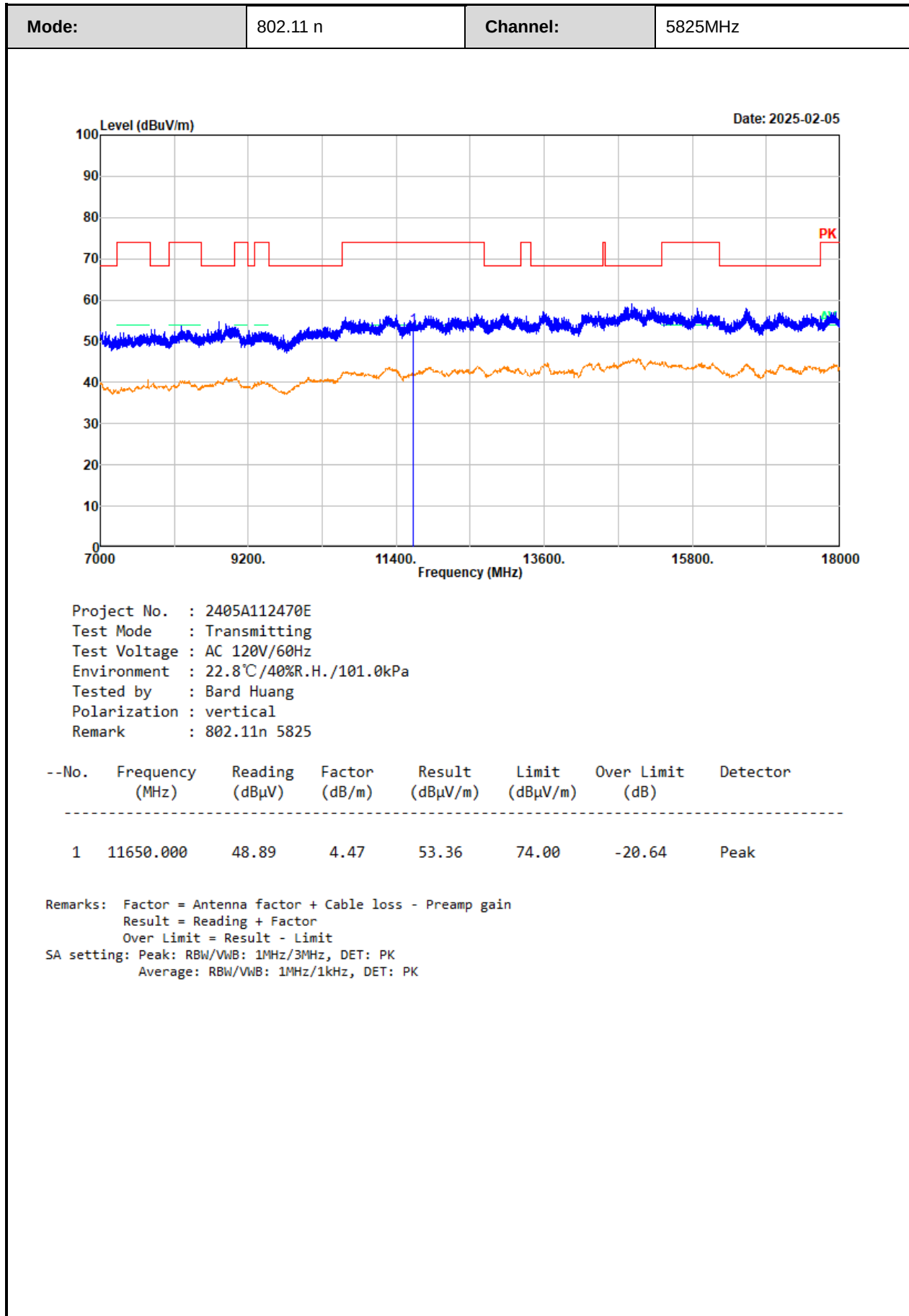


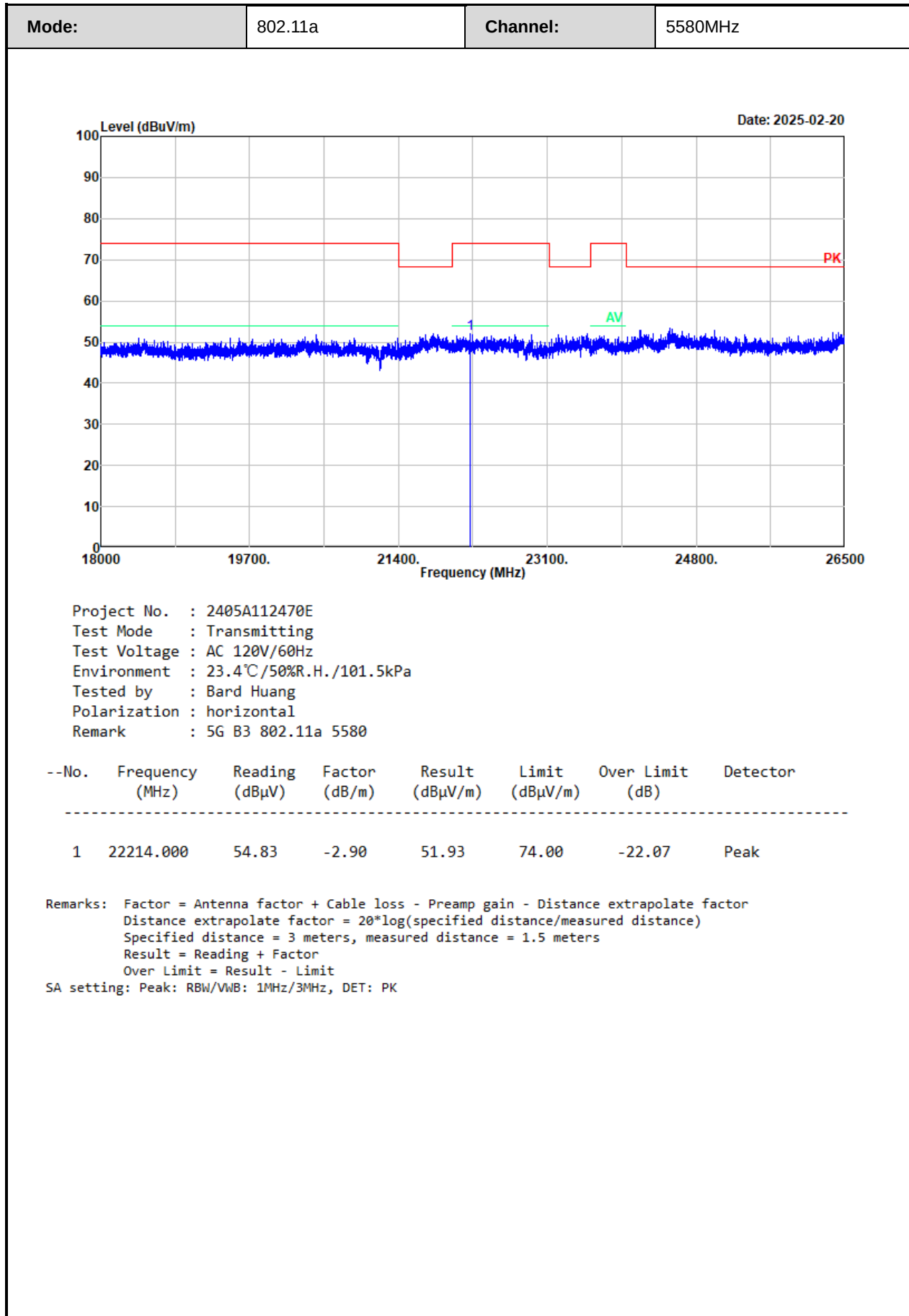


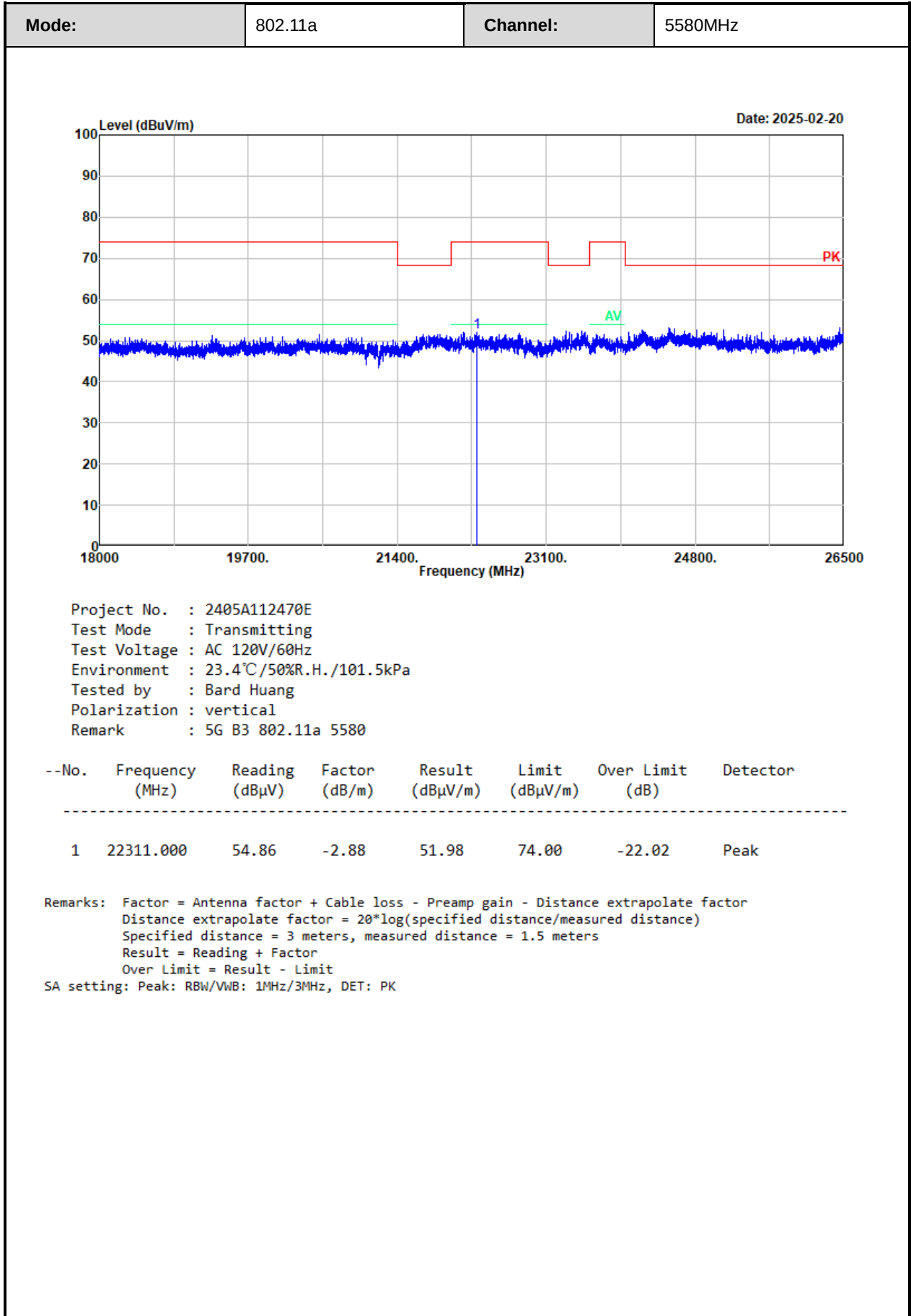


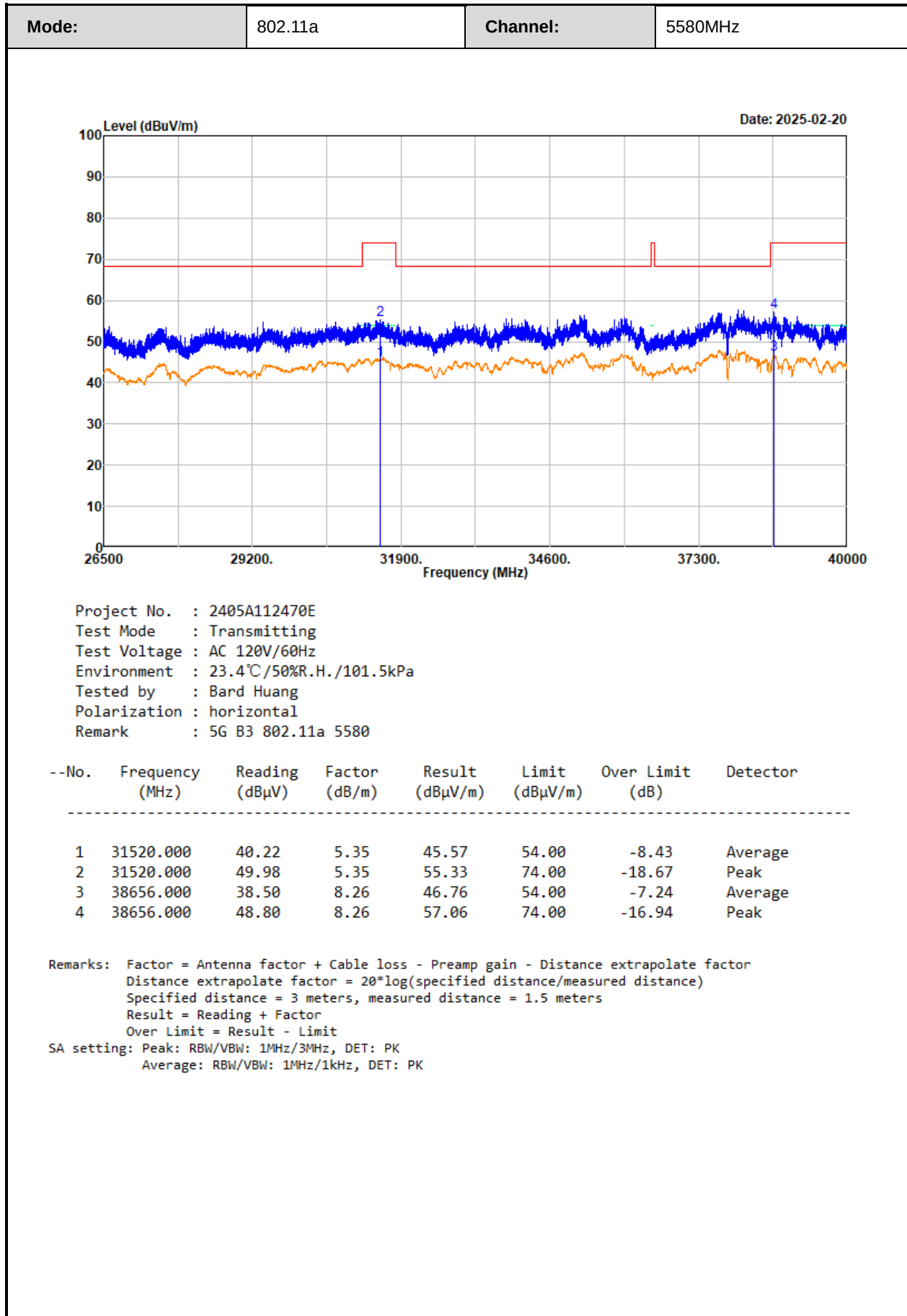


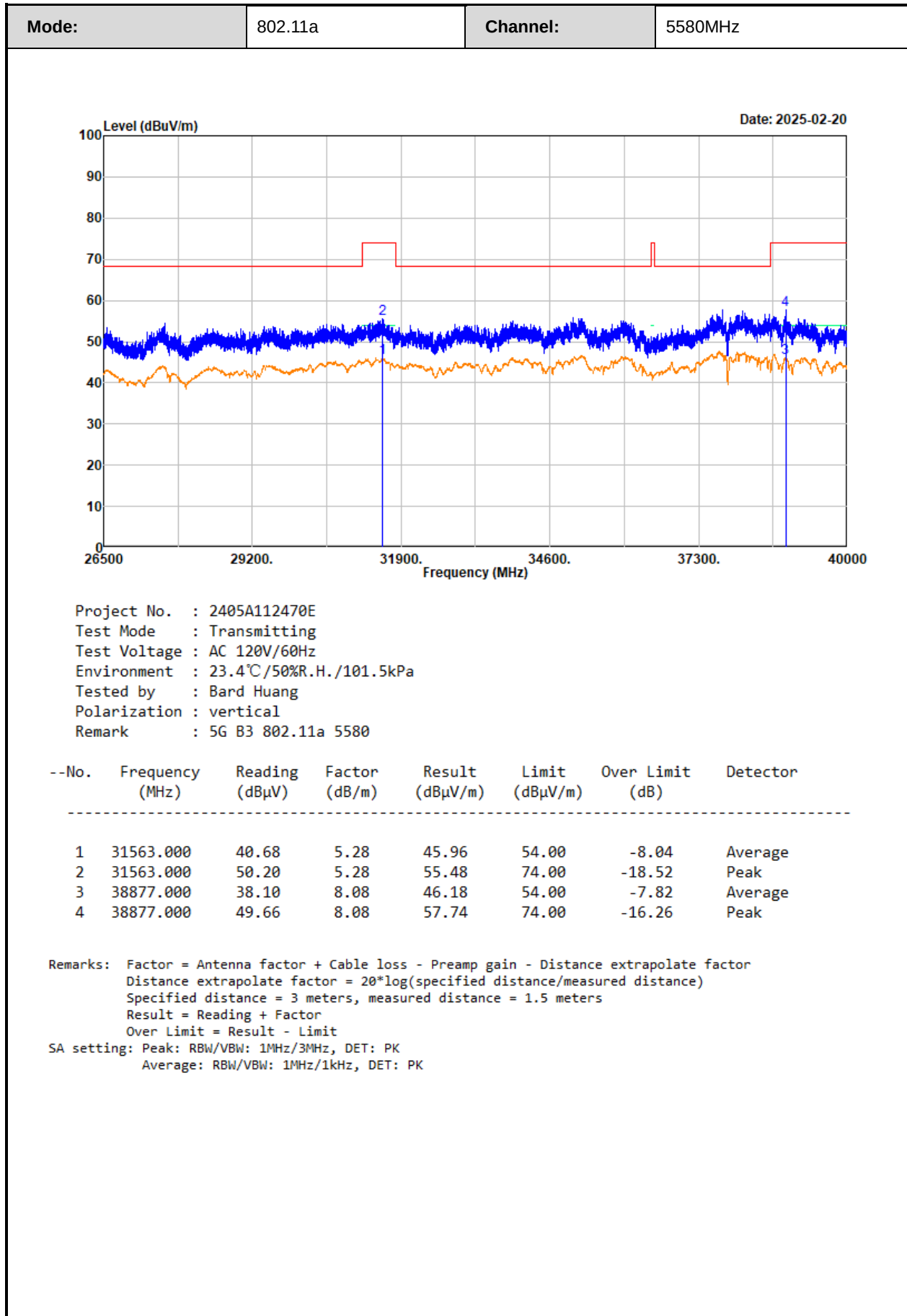




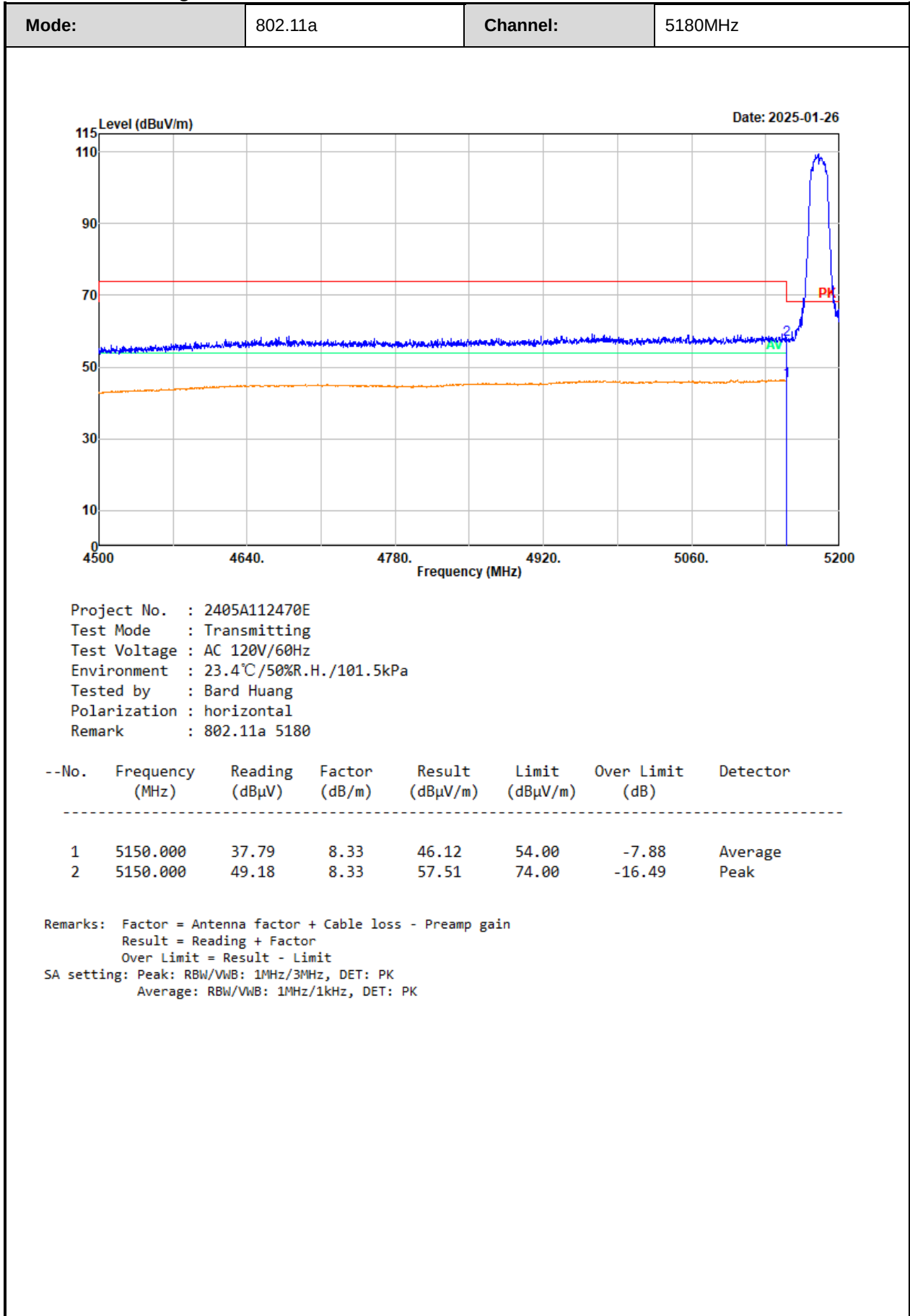


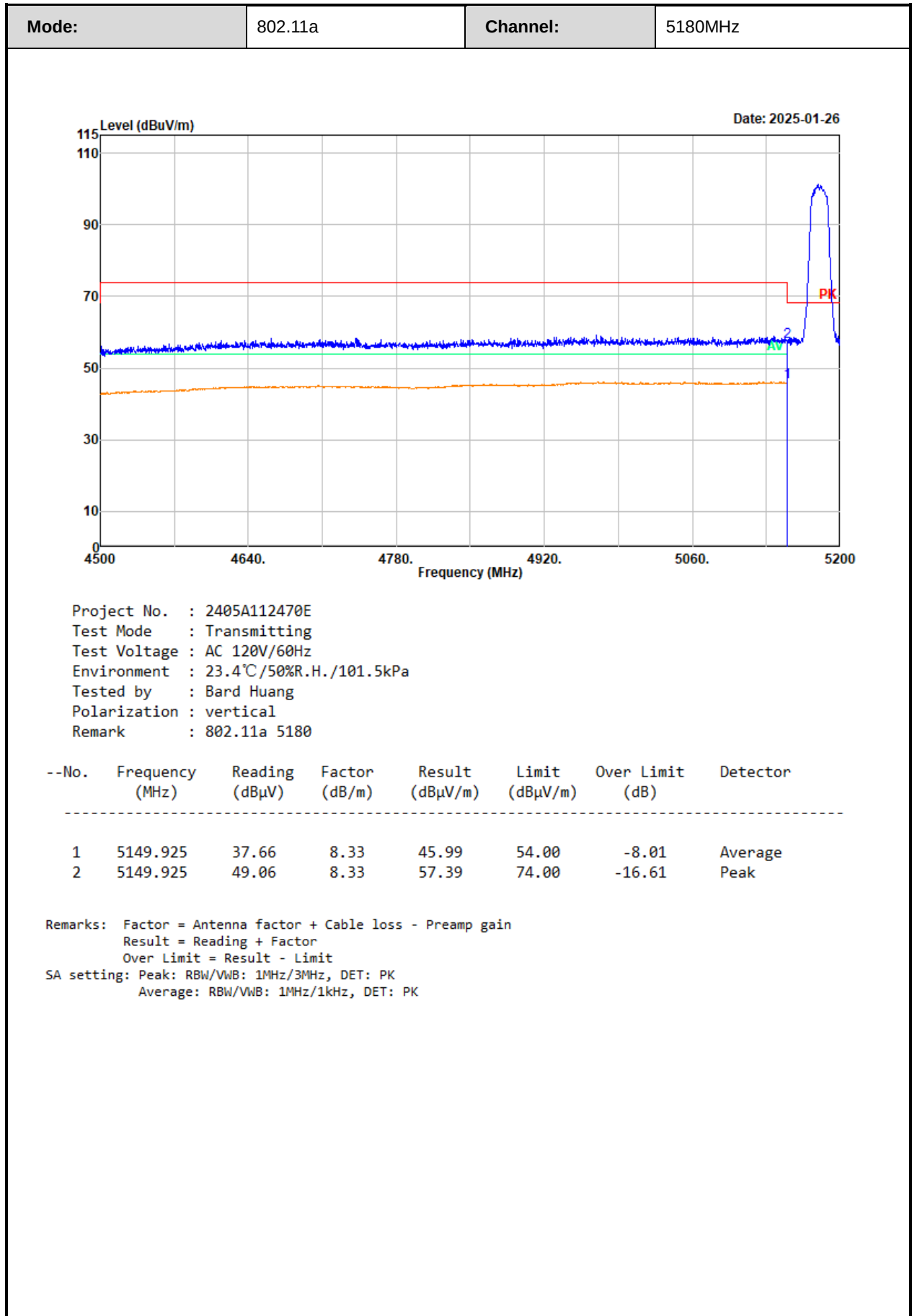


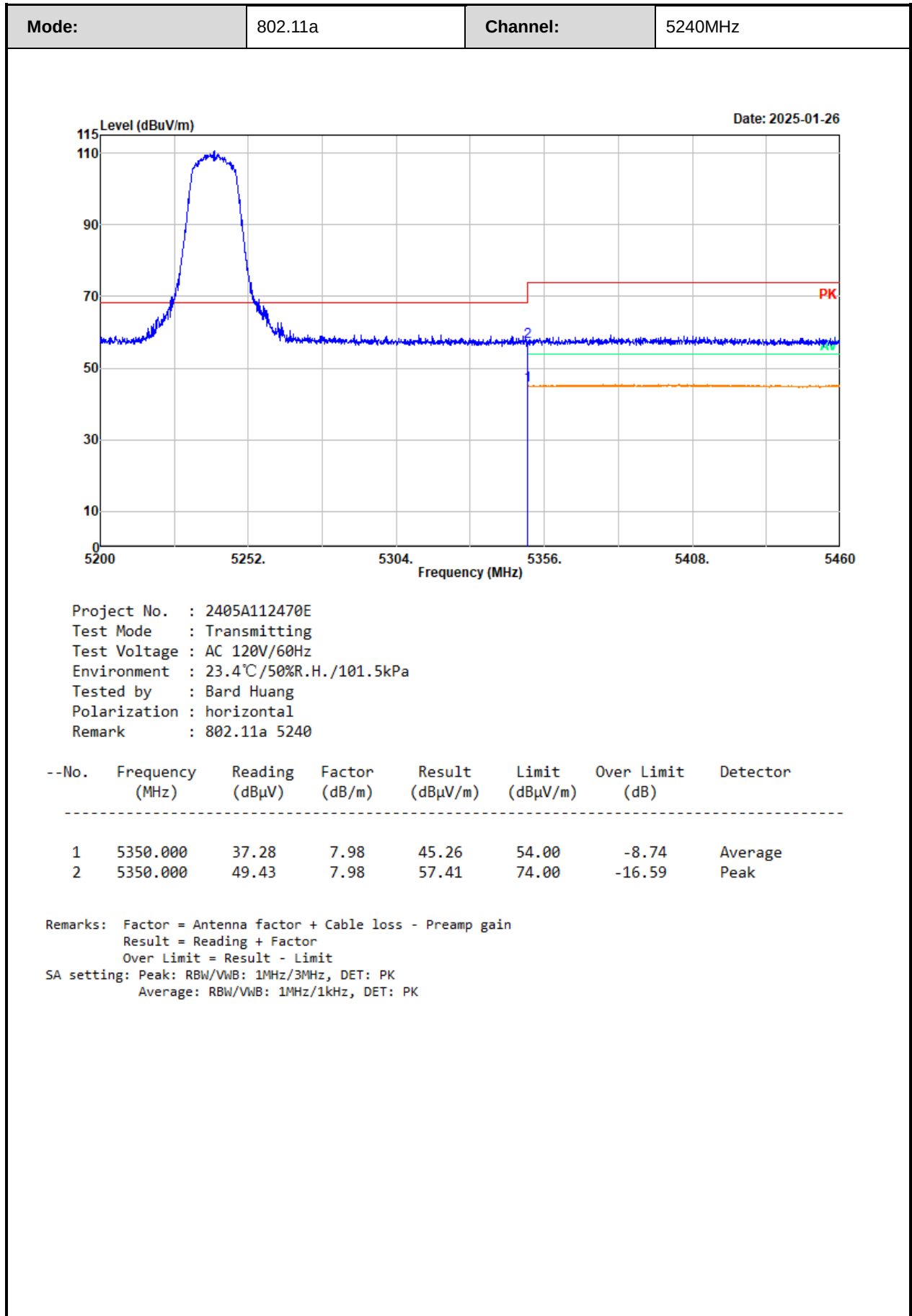


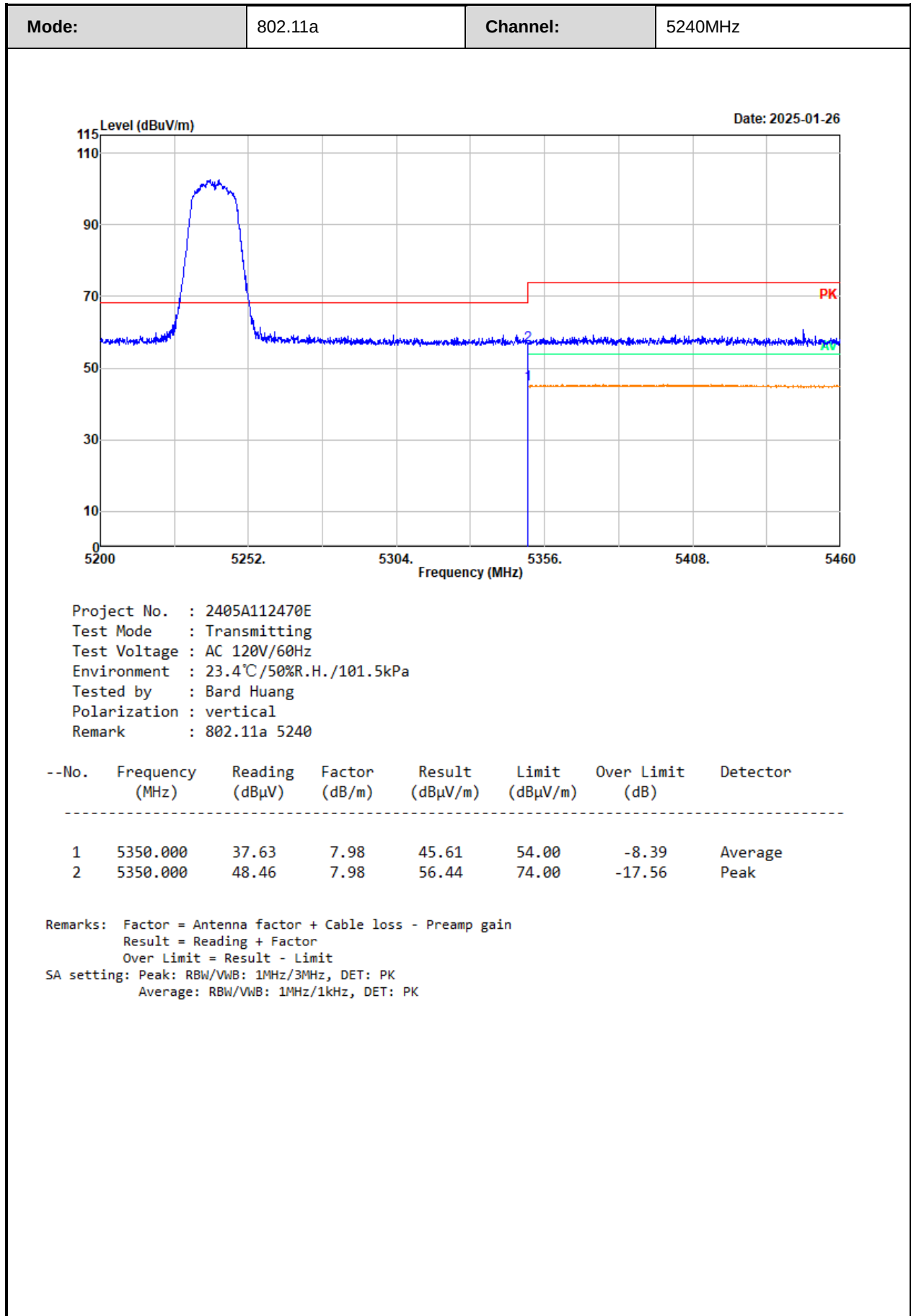


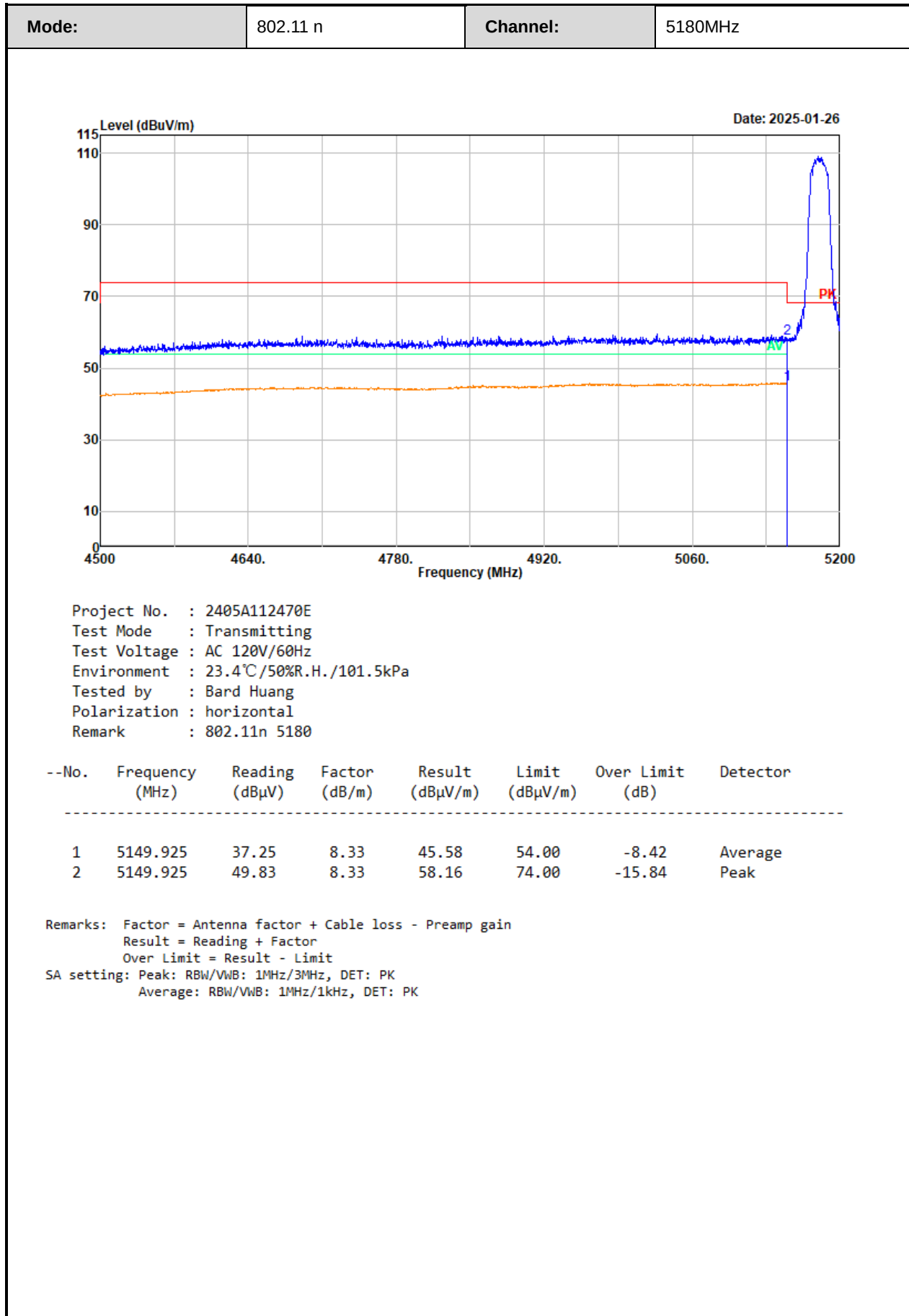
Radiated Band edge:

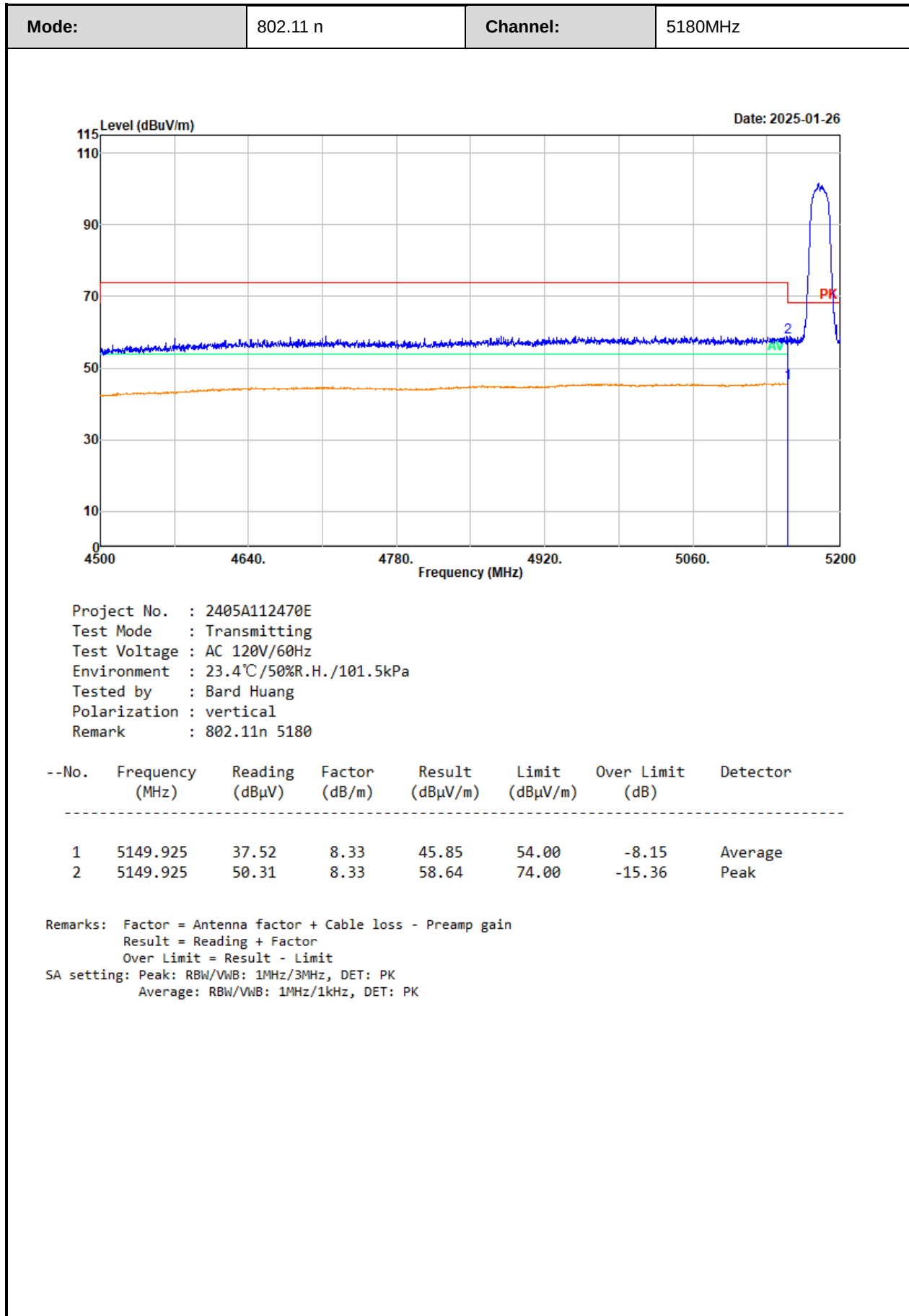


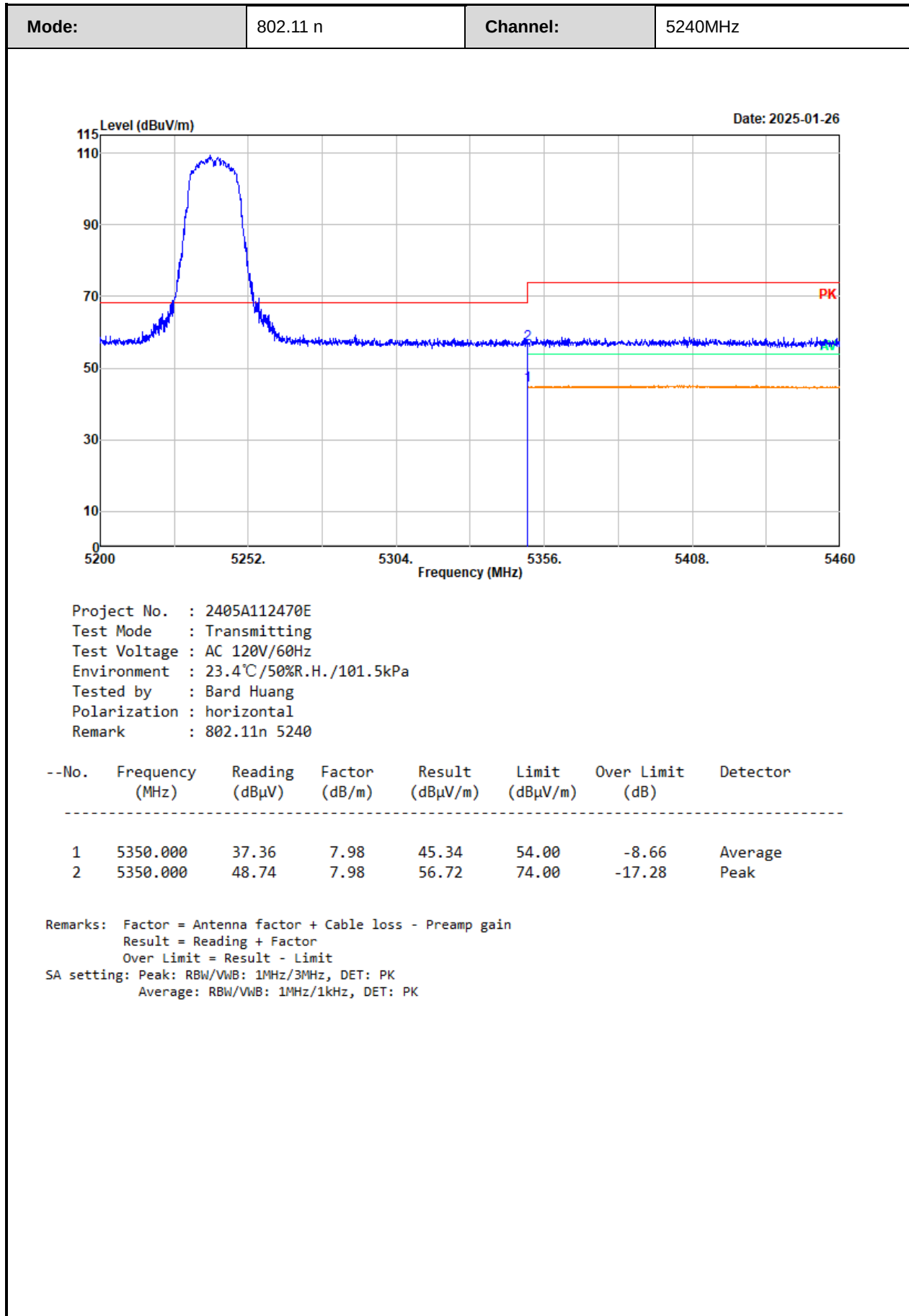


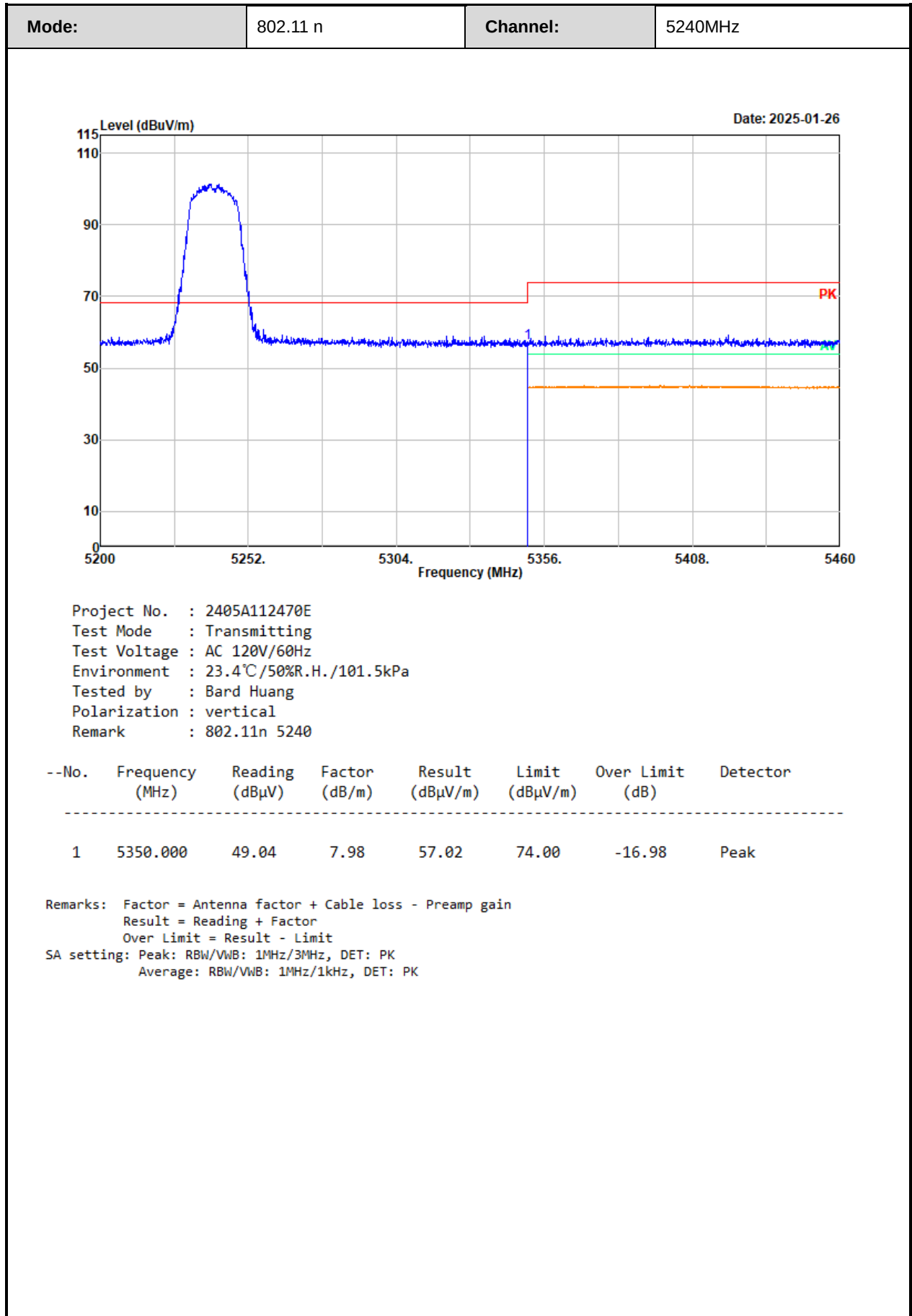


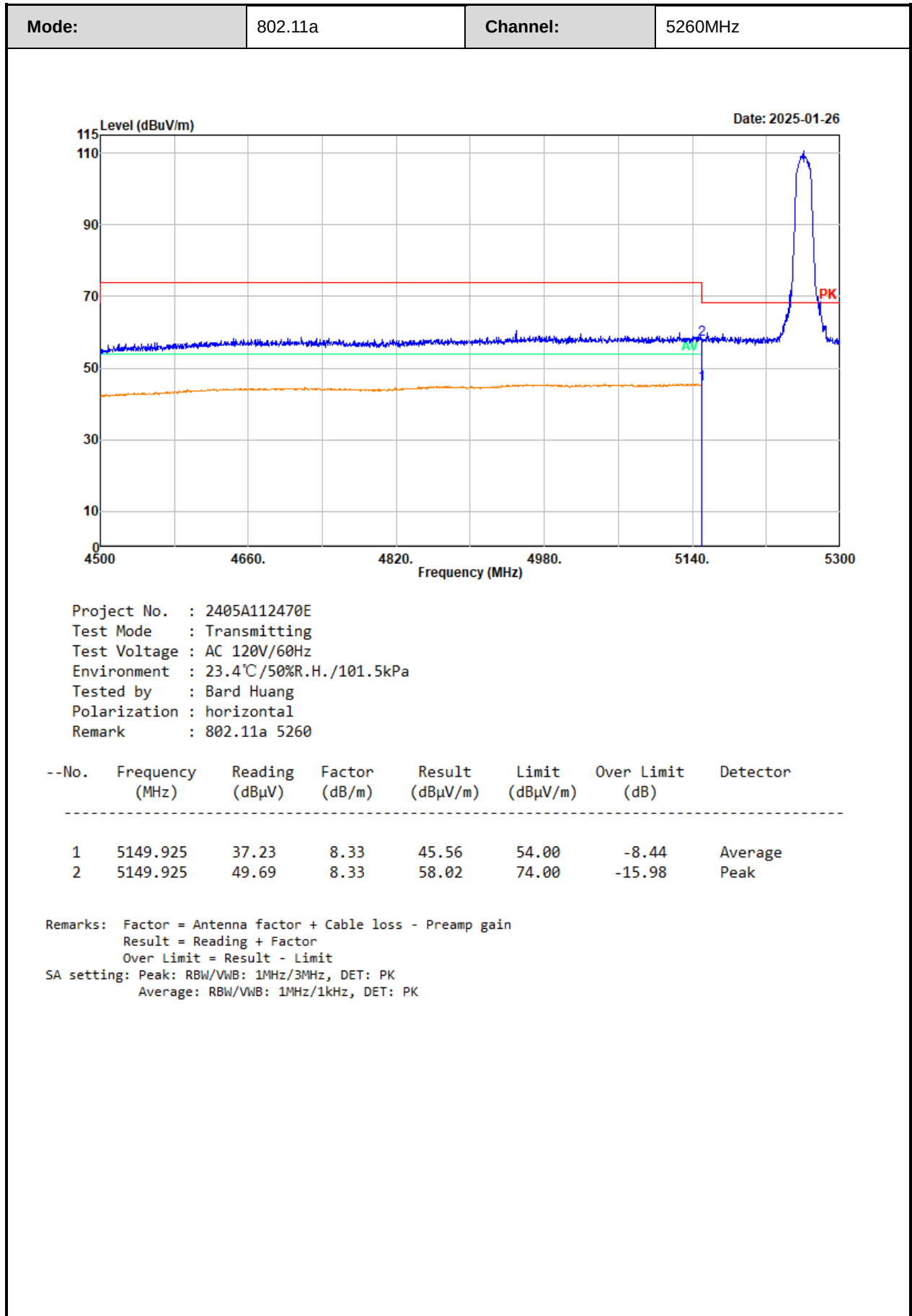


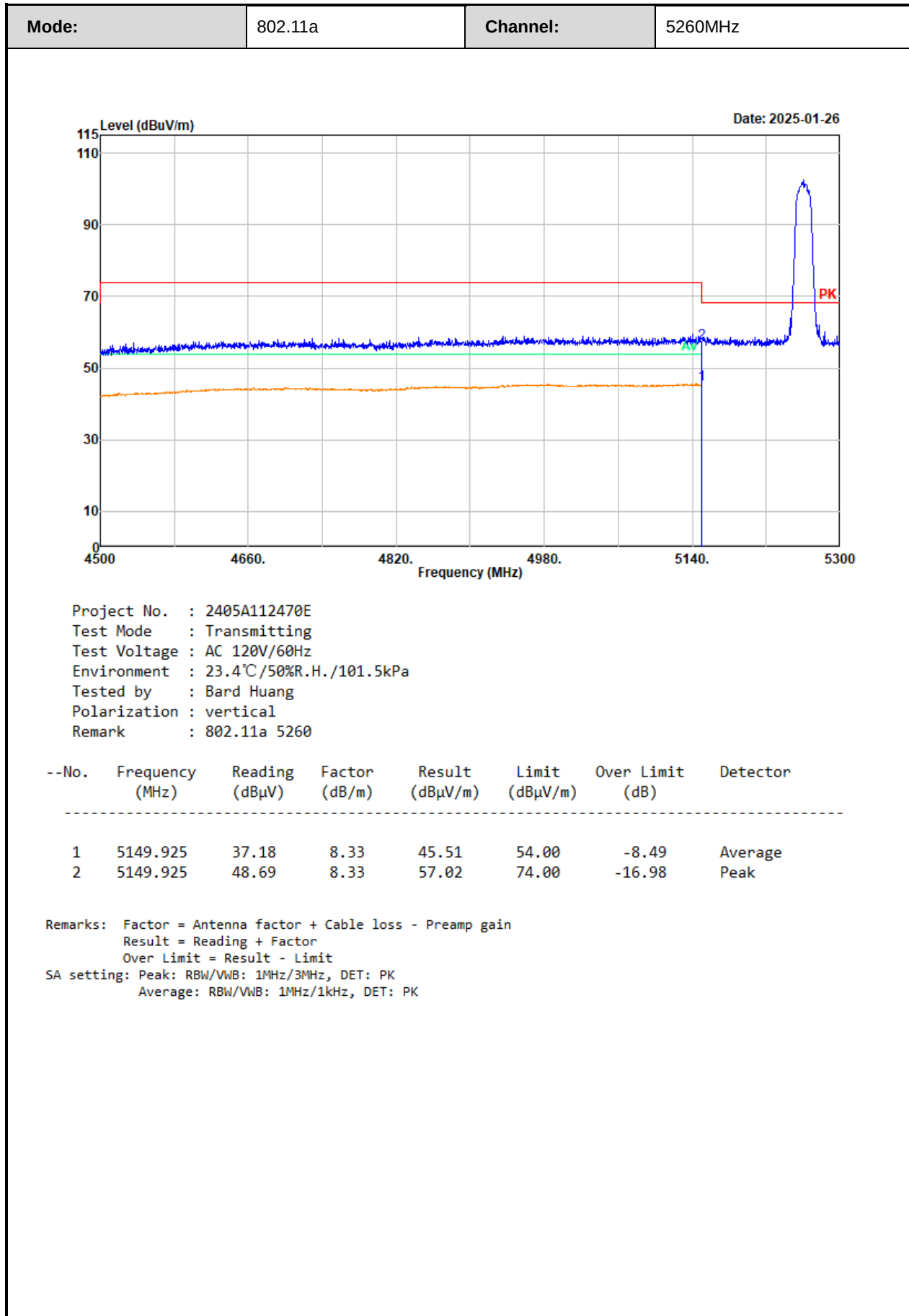


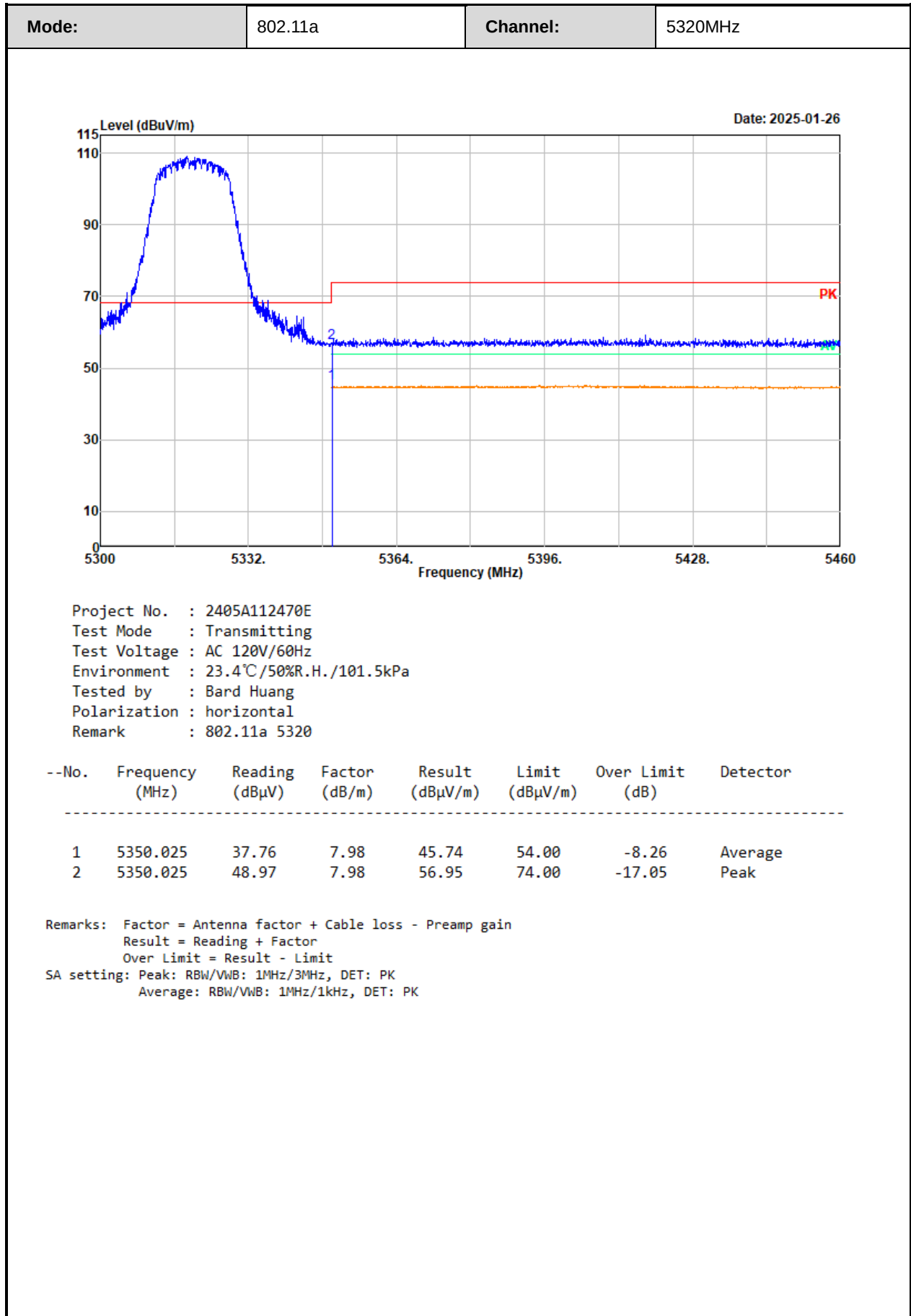


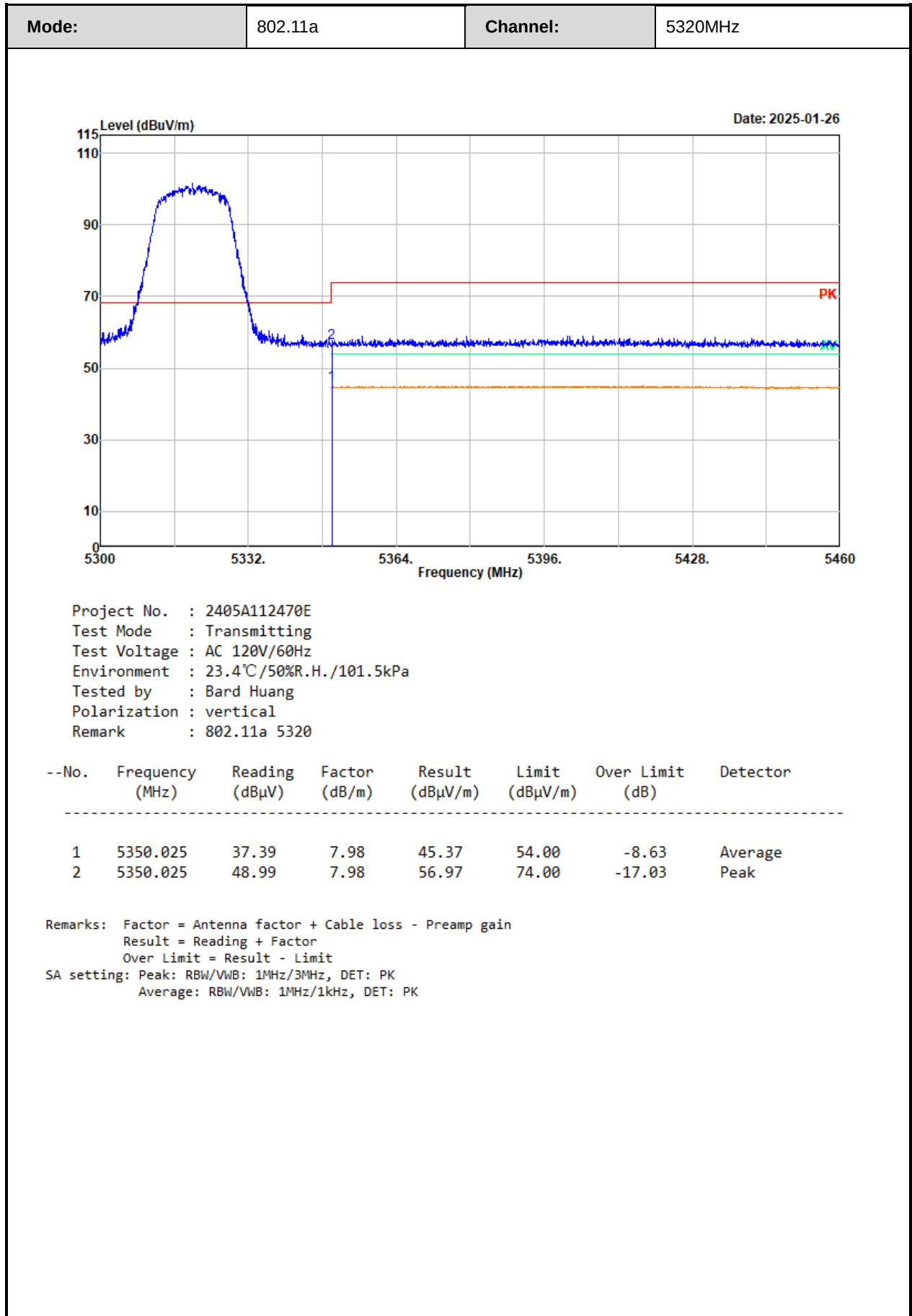


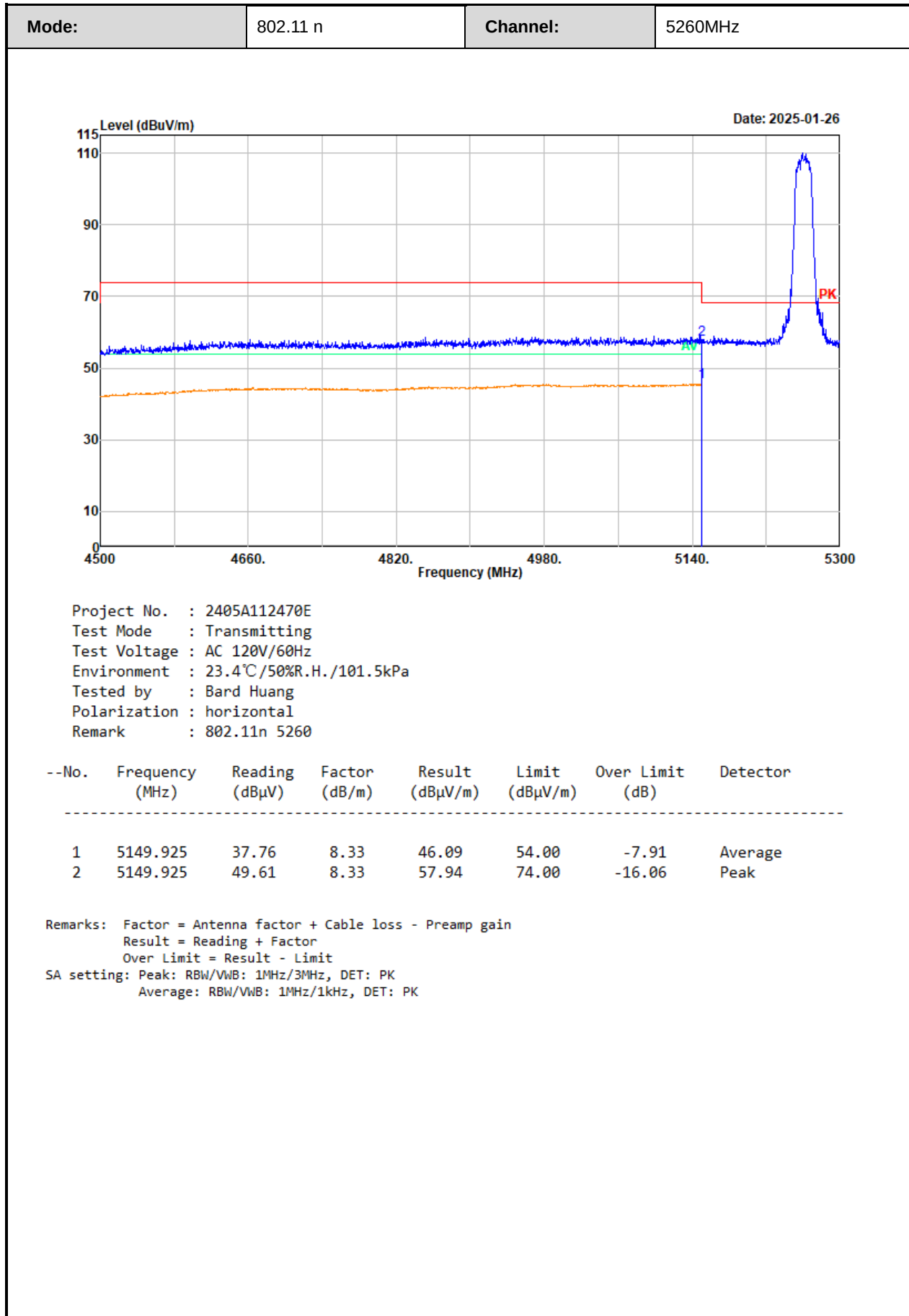


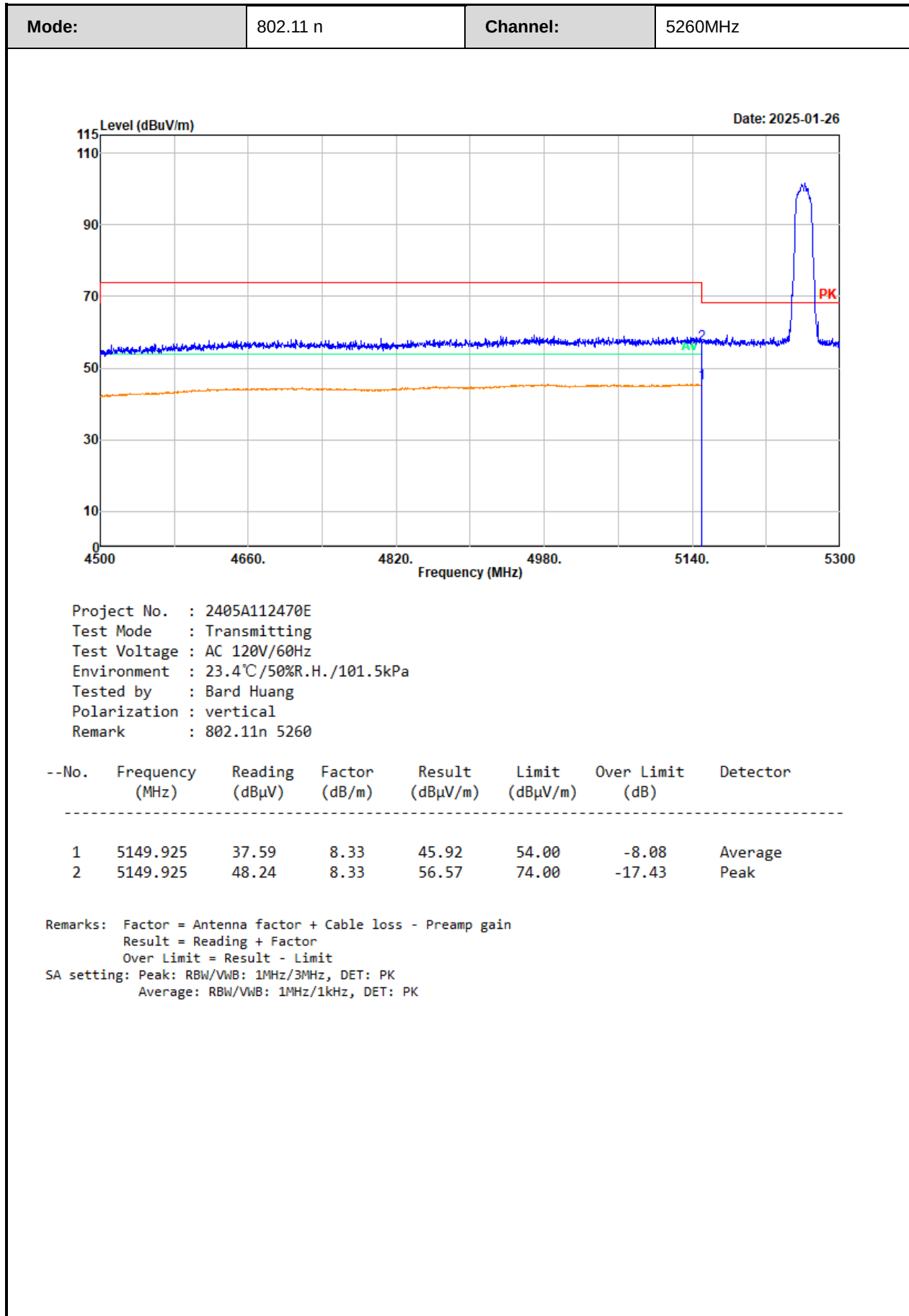


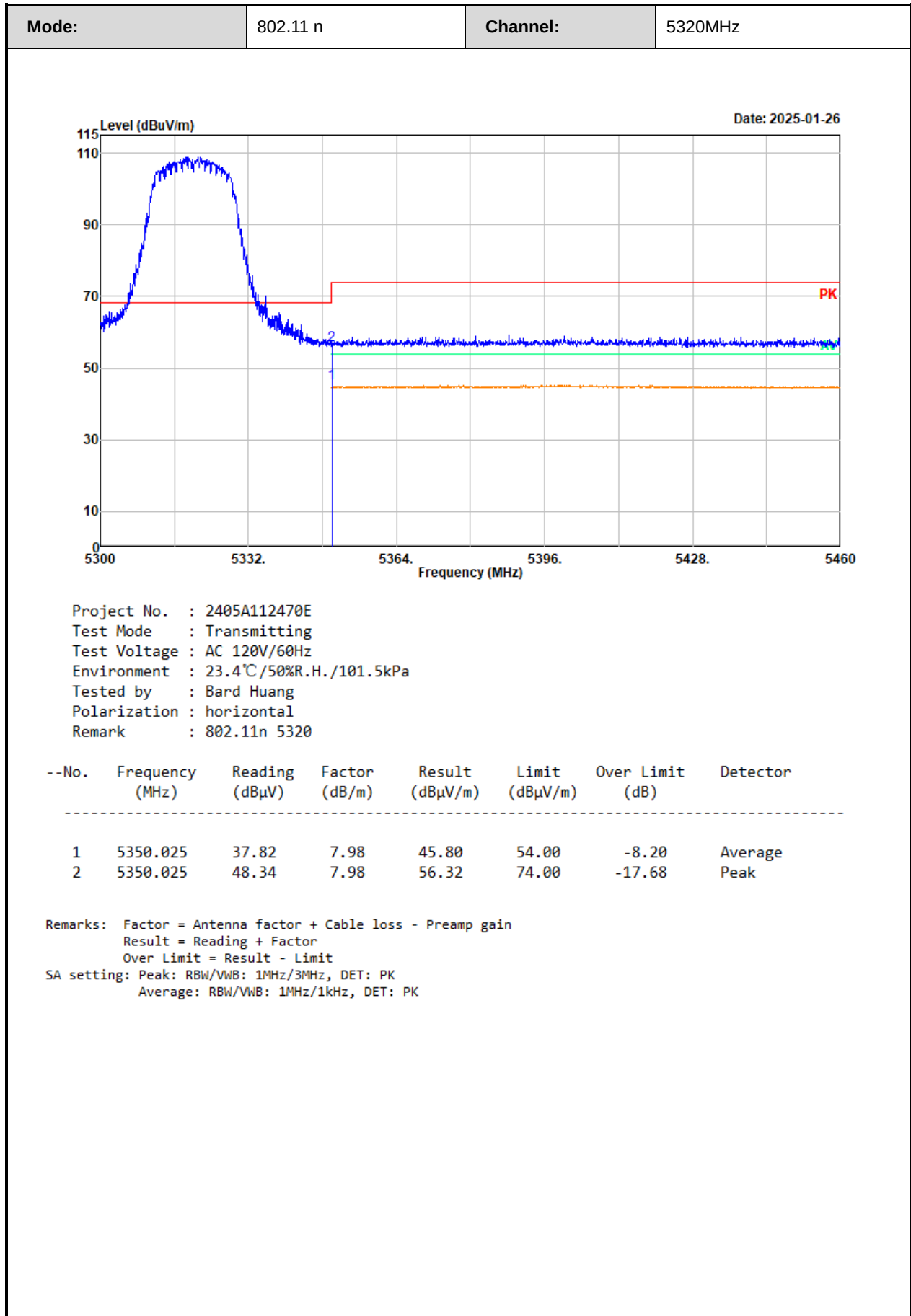


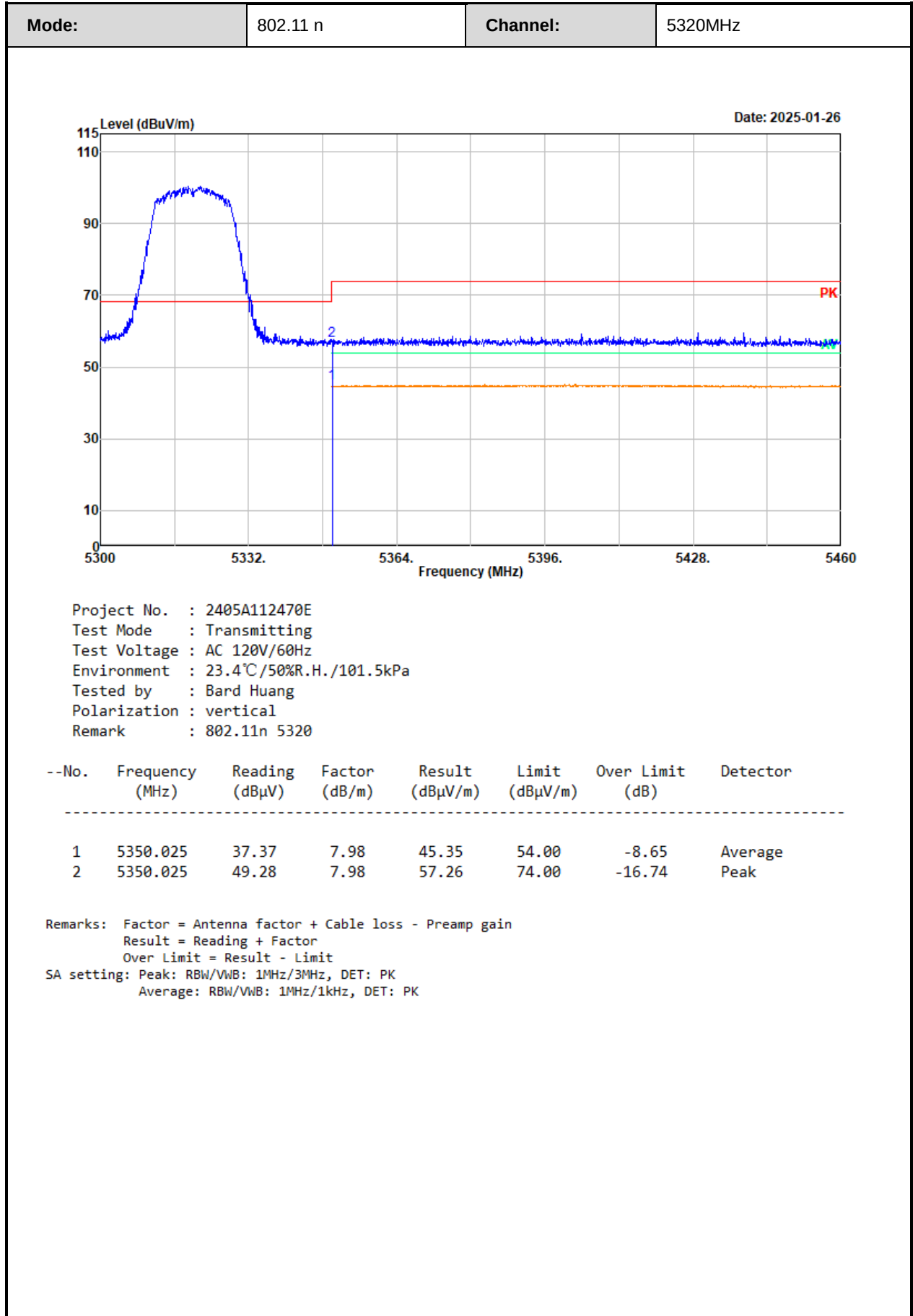


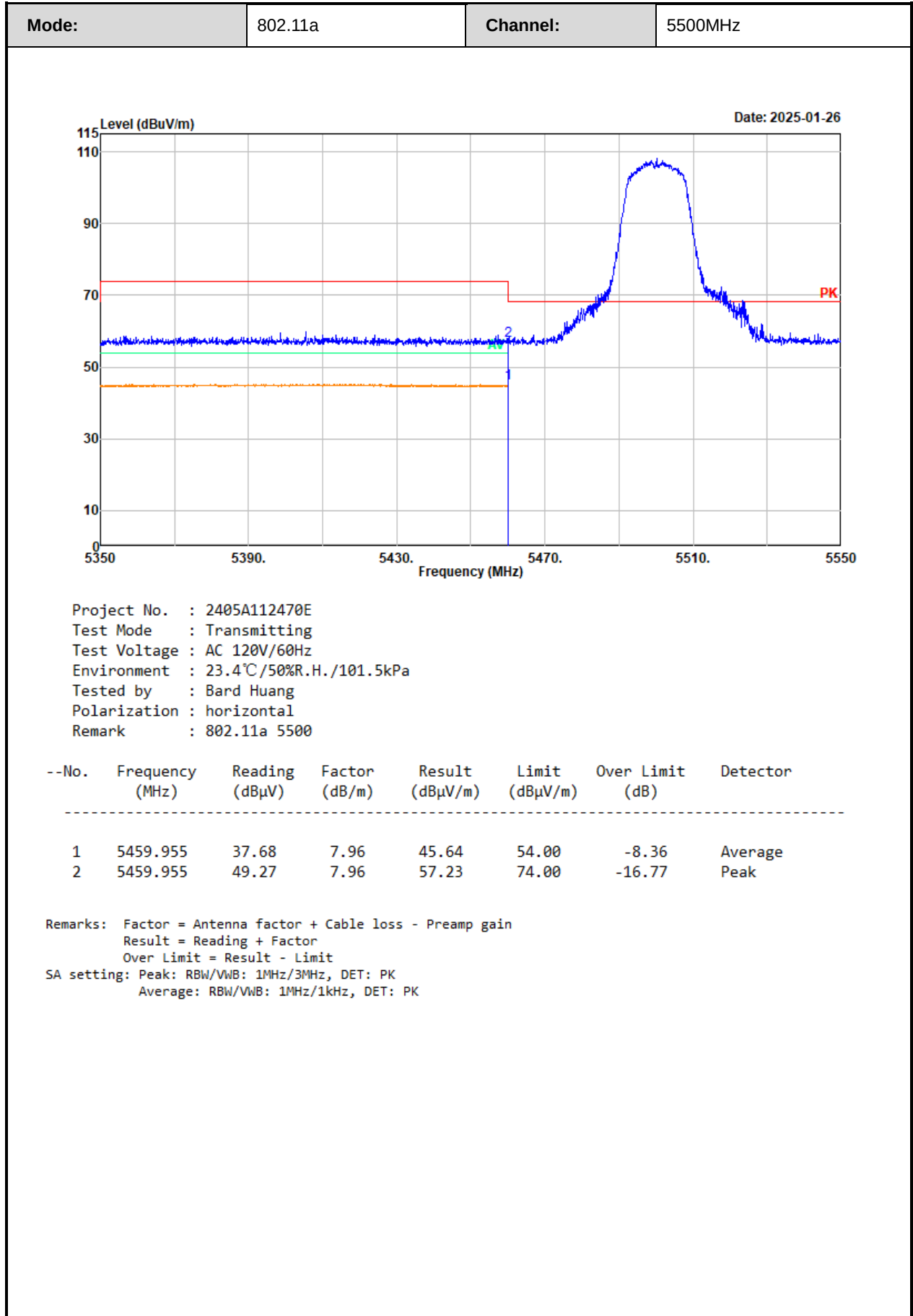


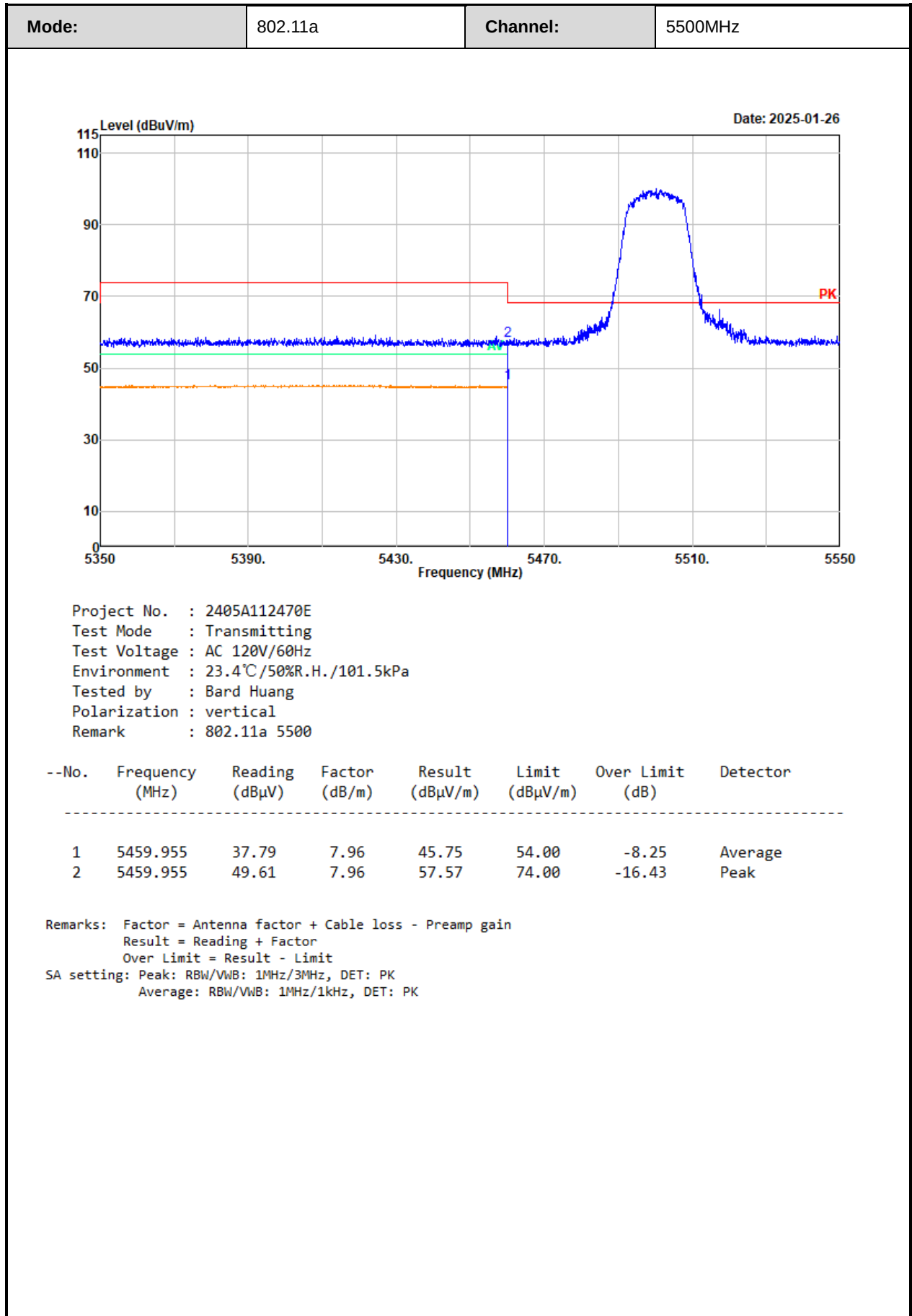


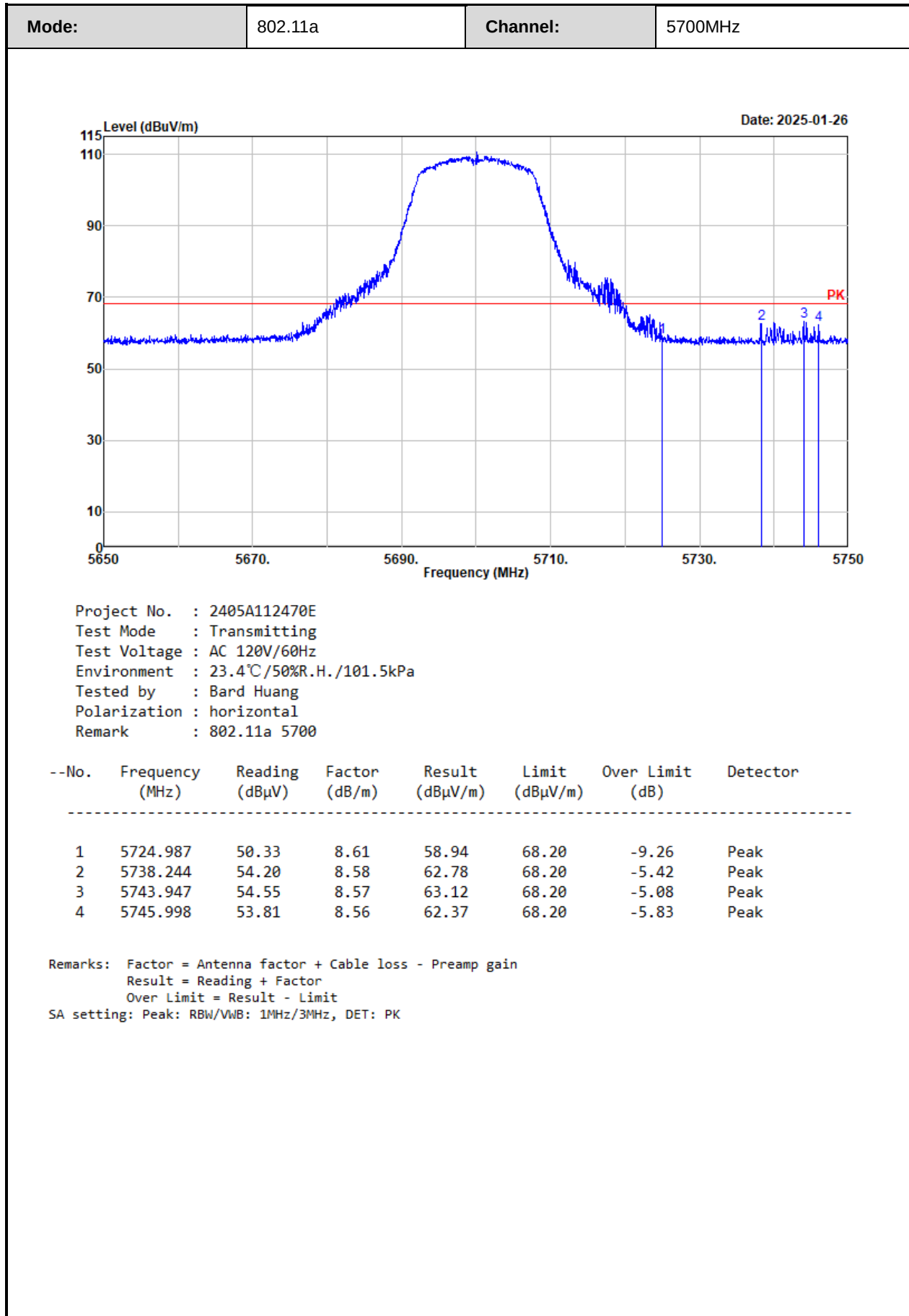


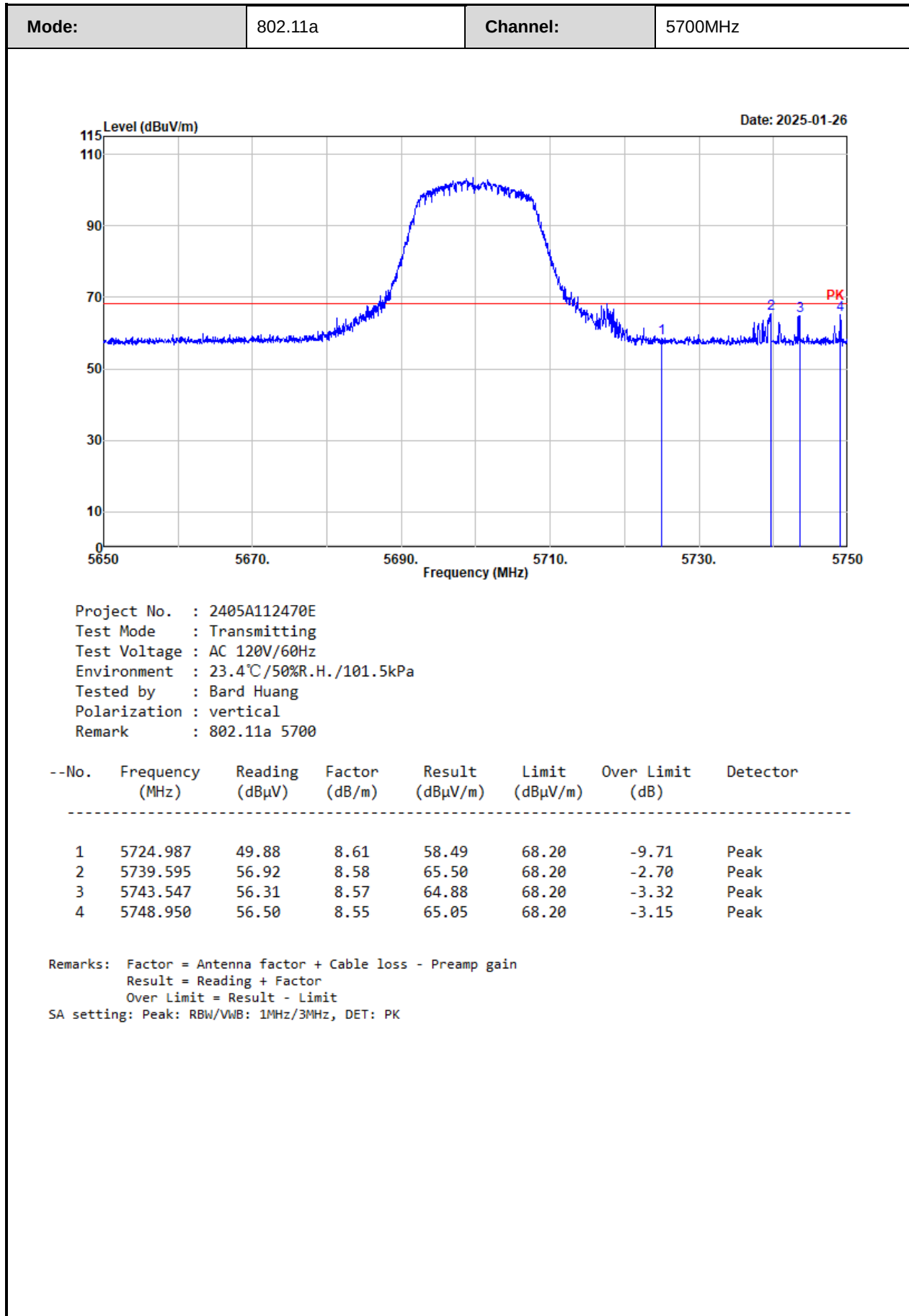


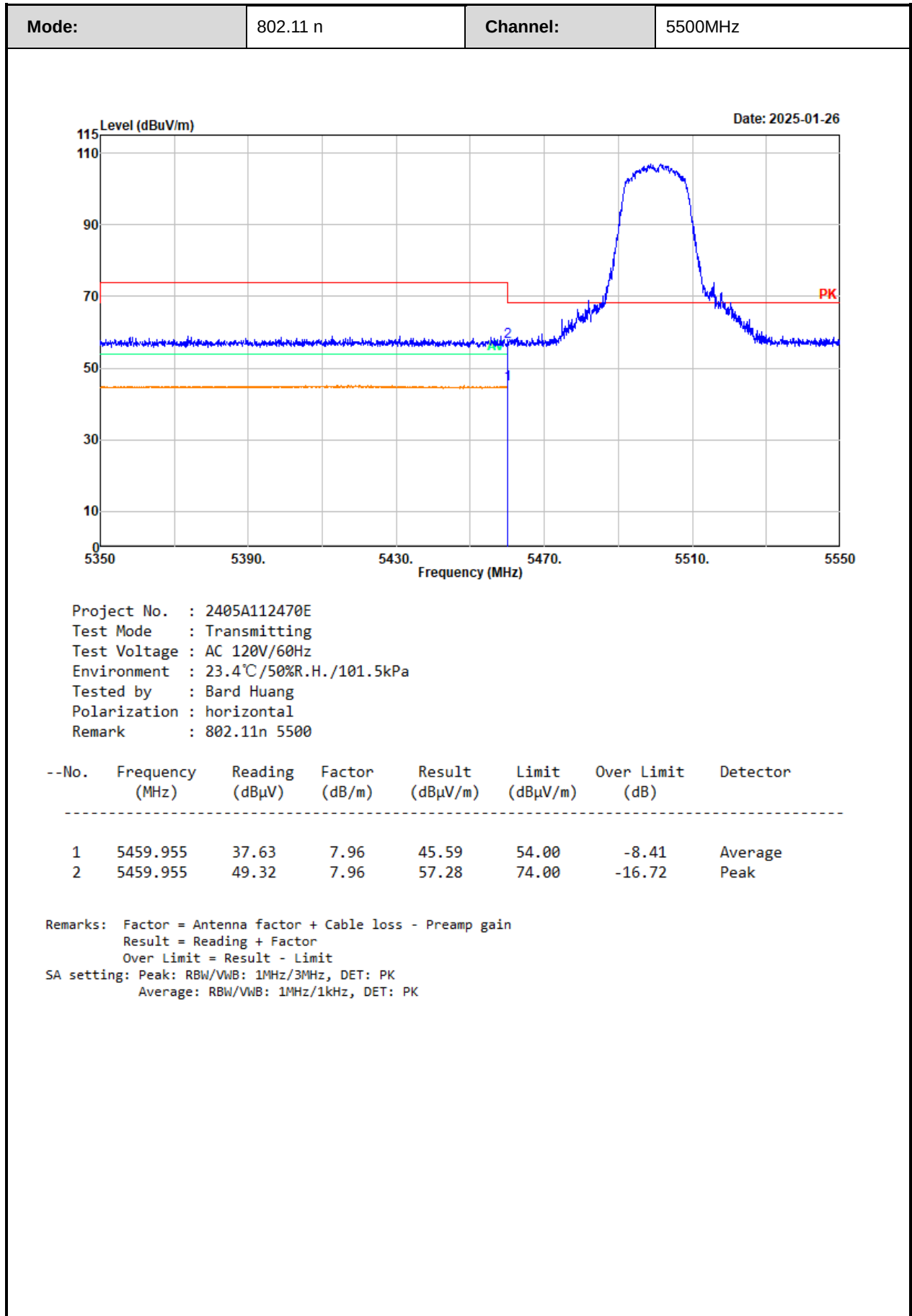


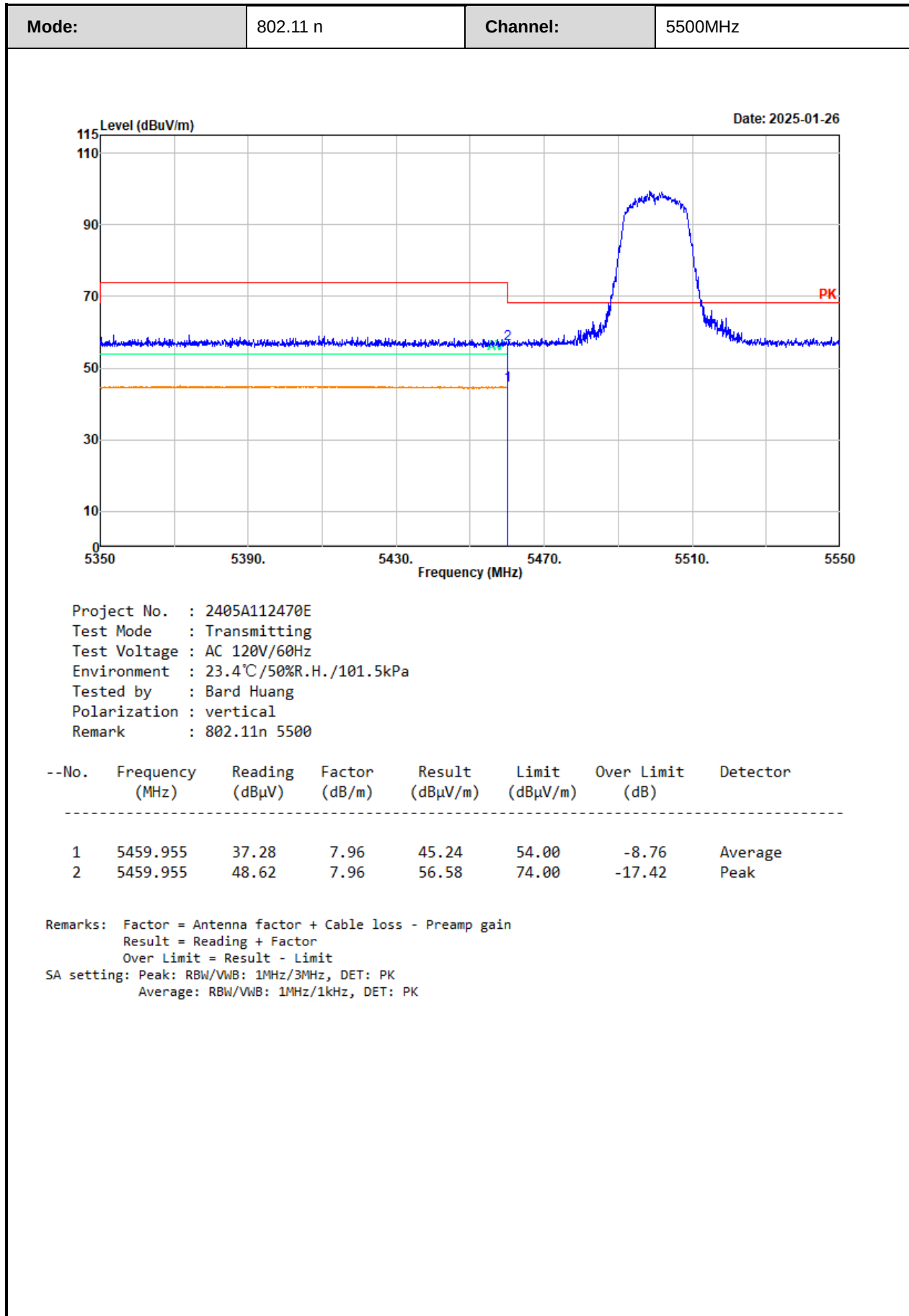


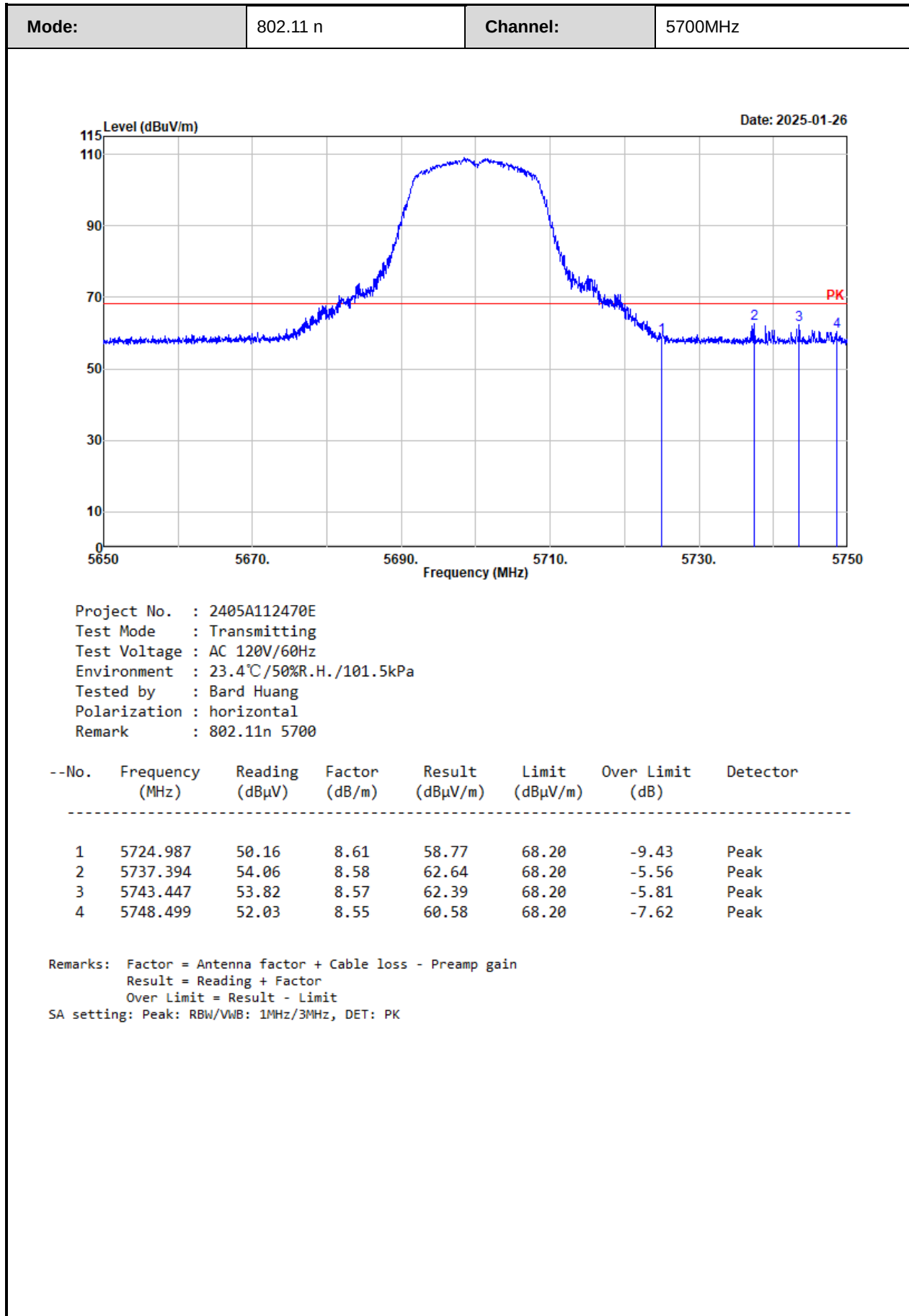


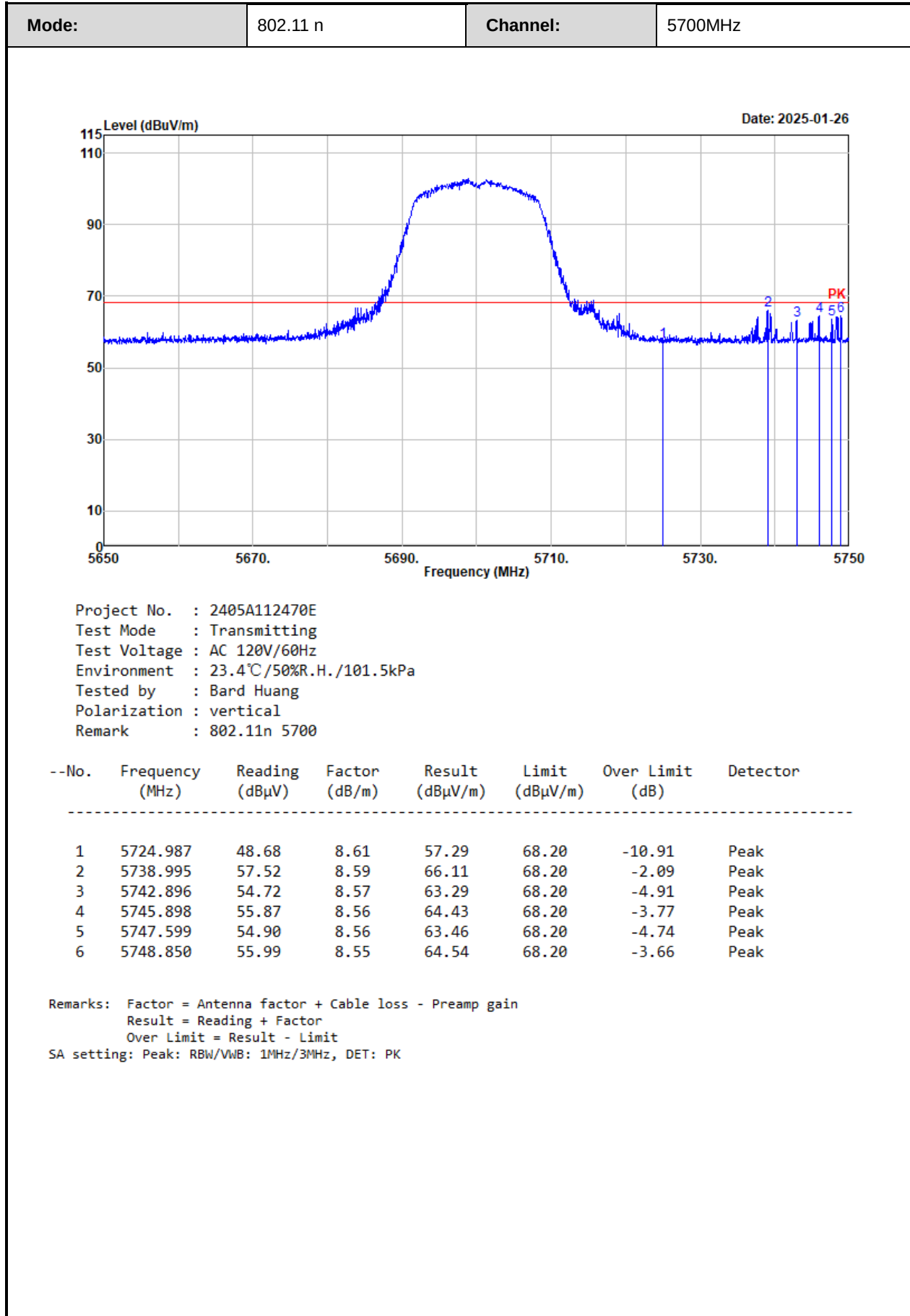


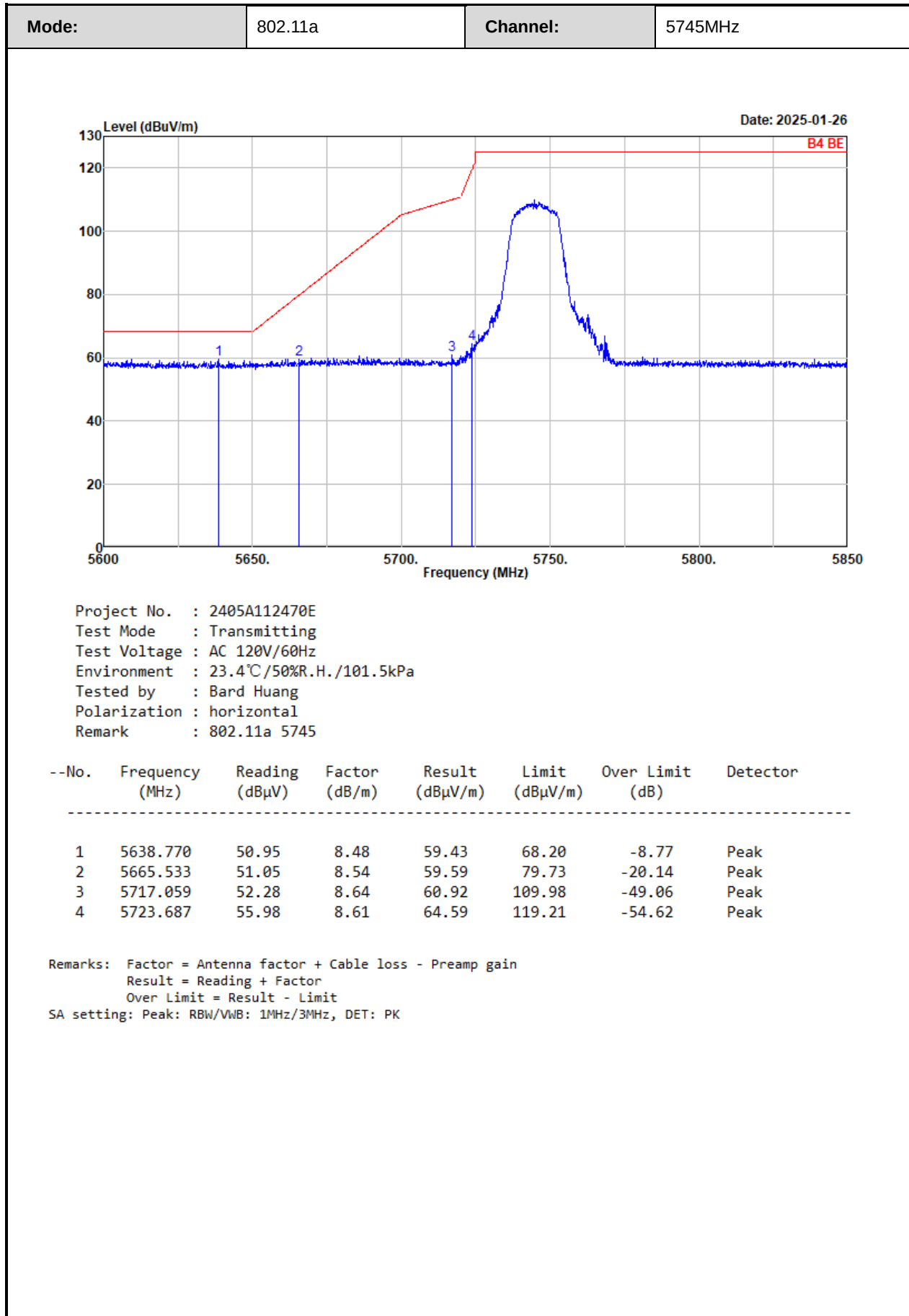


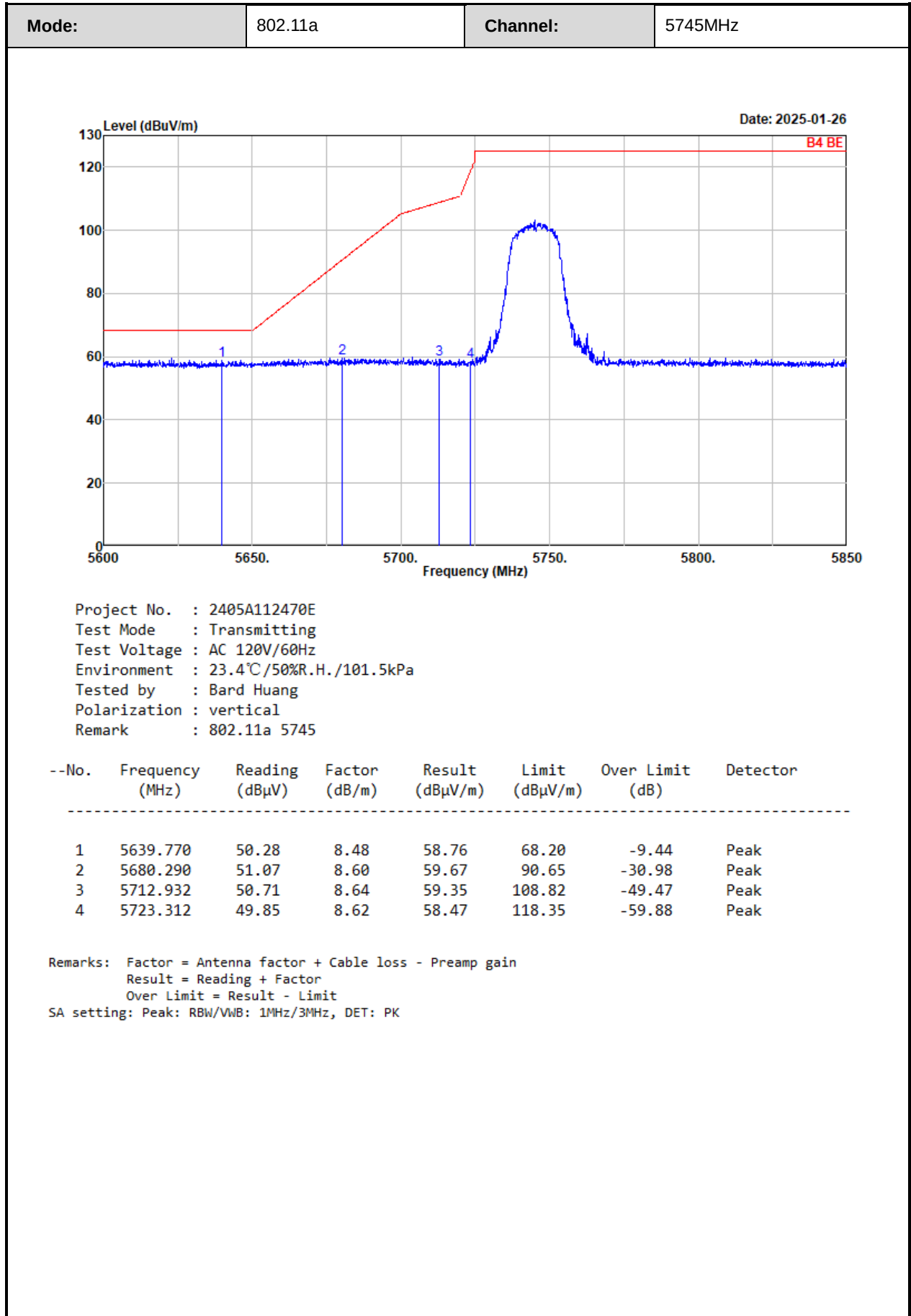


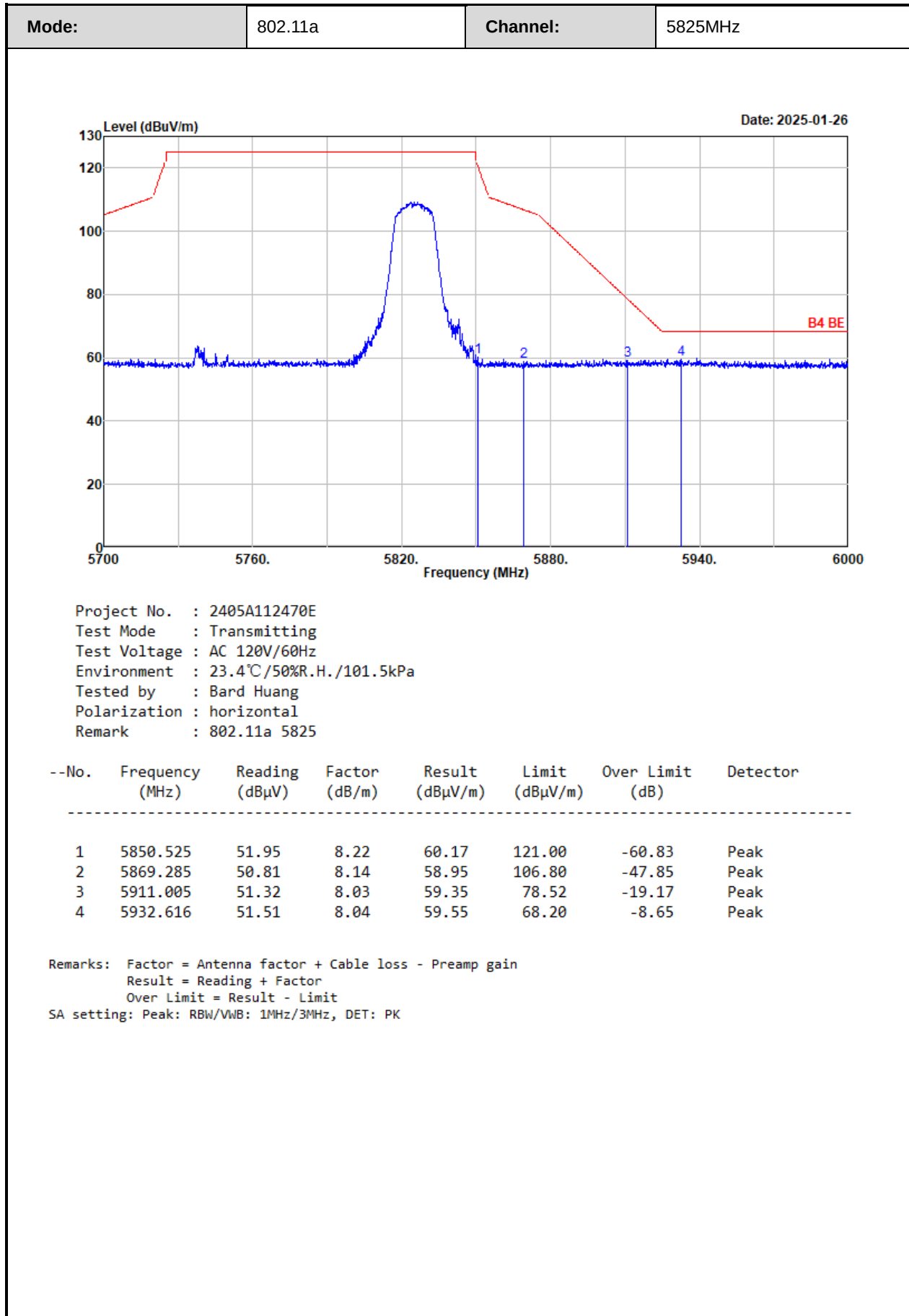


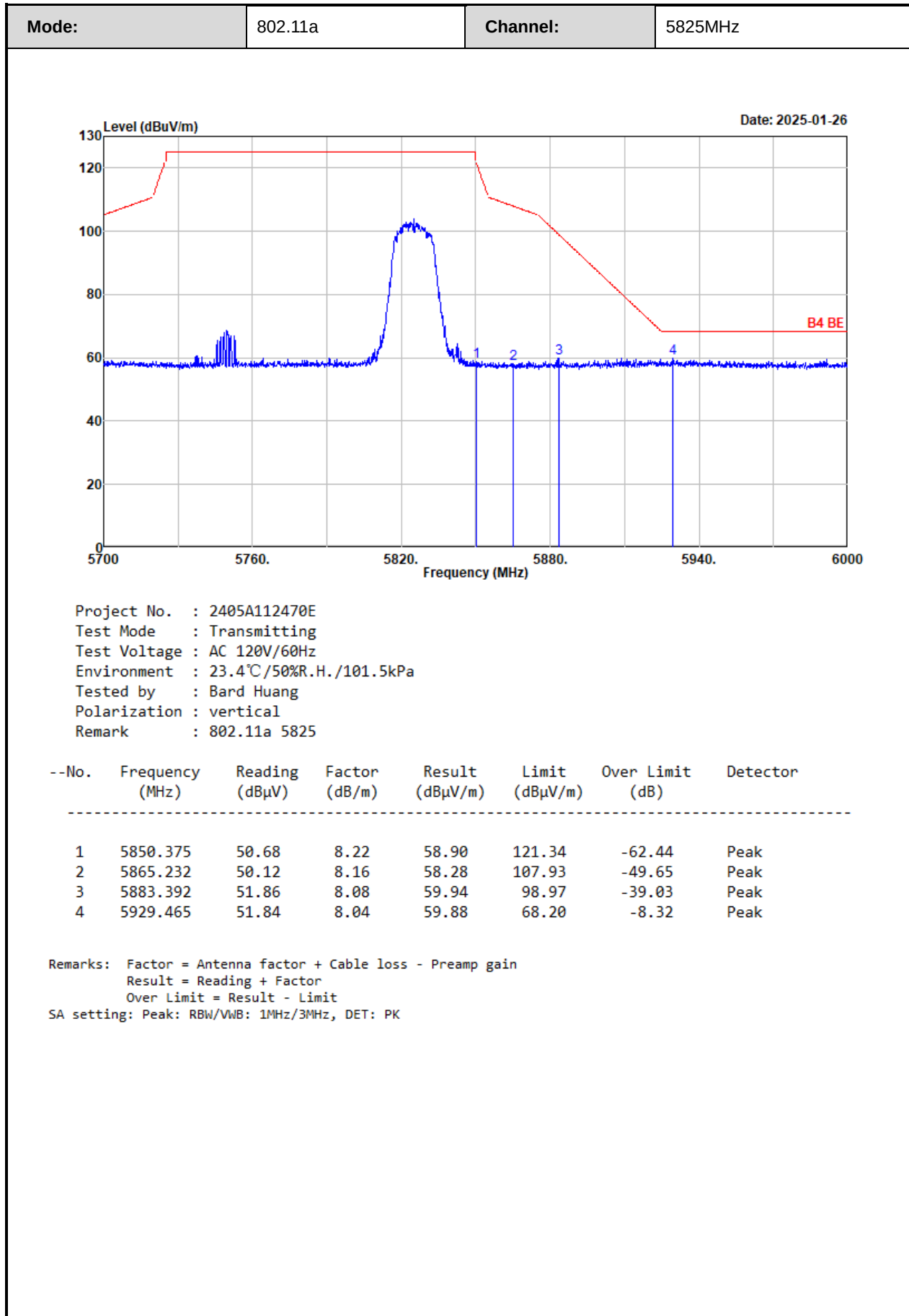


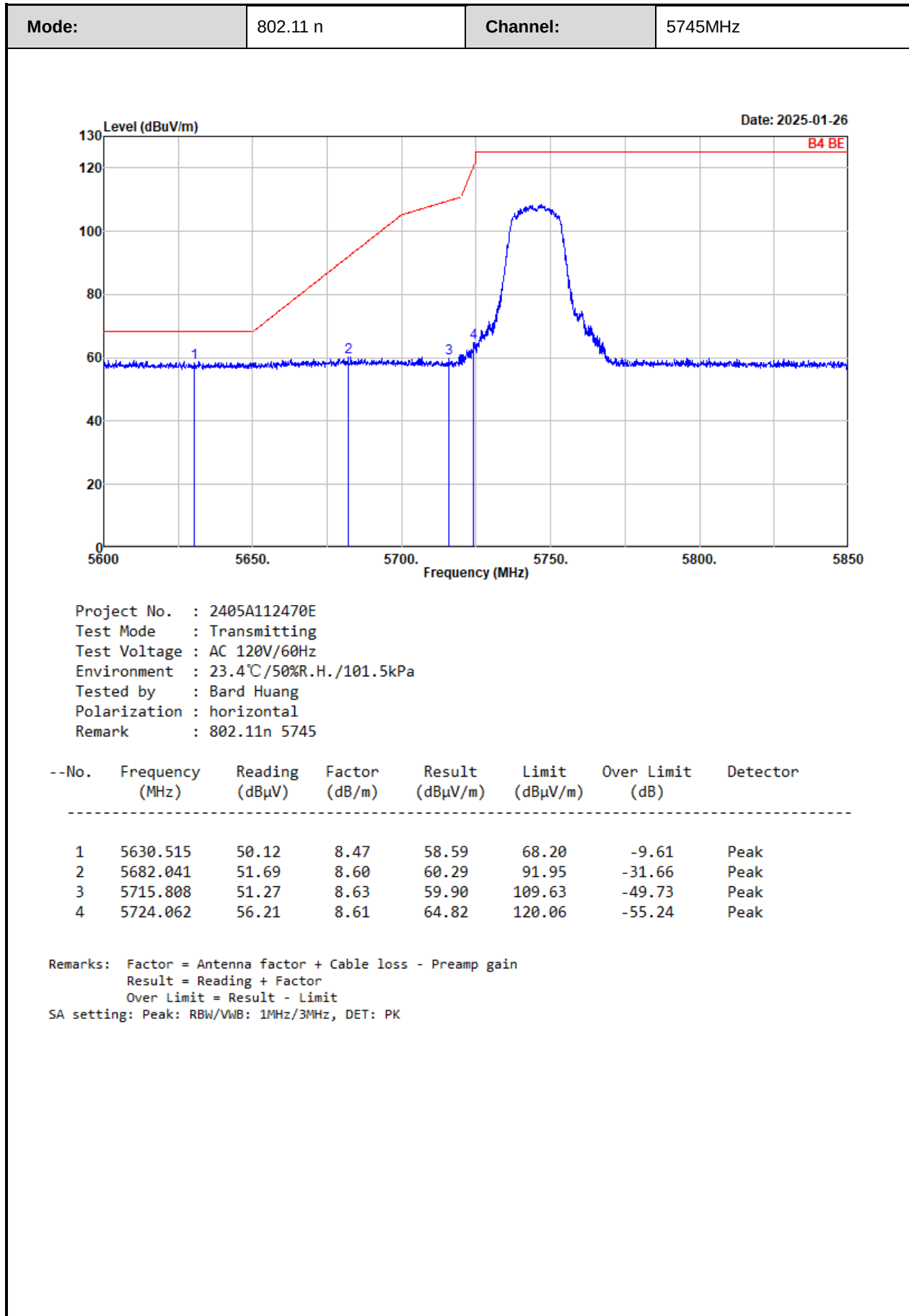


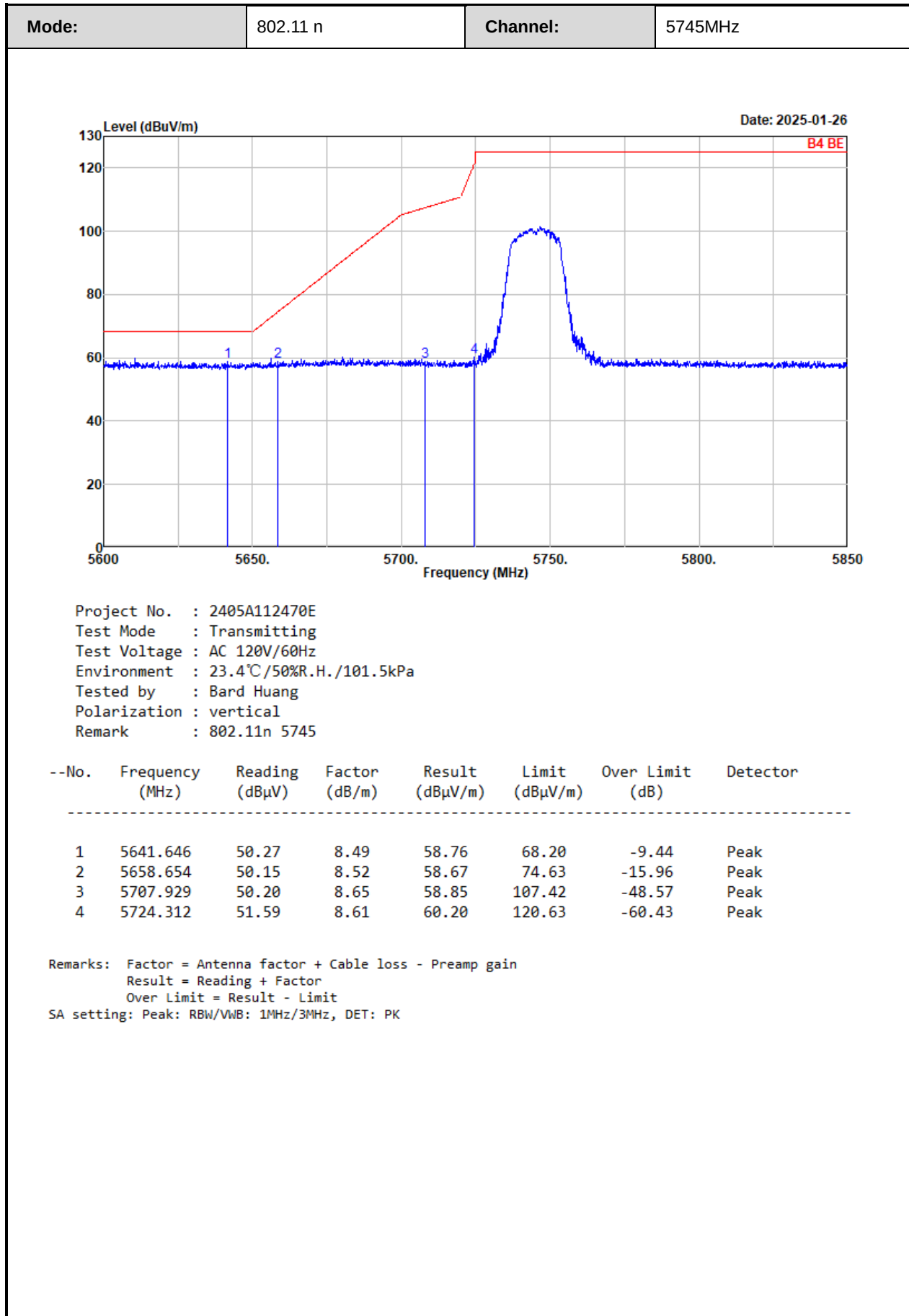


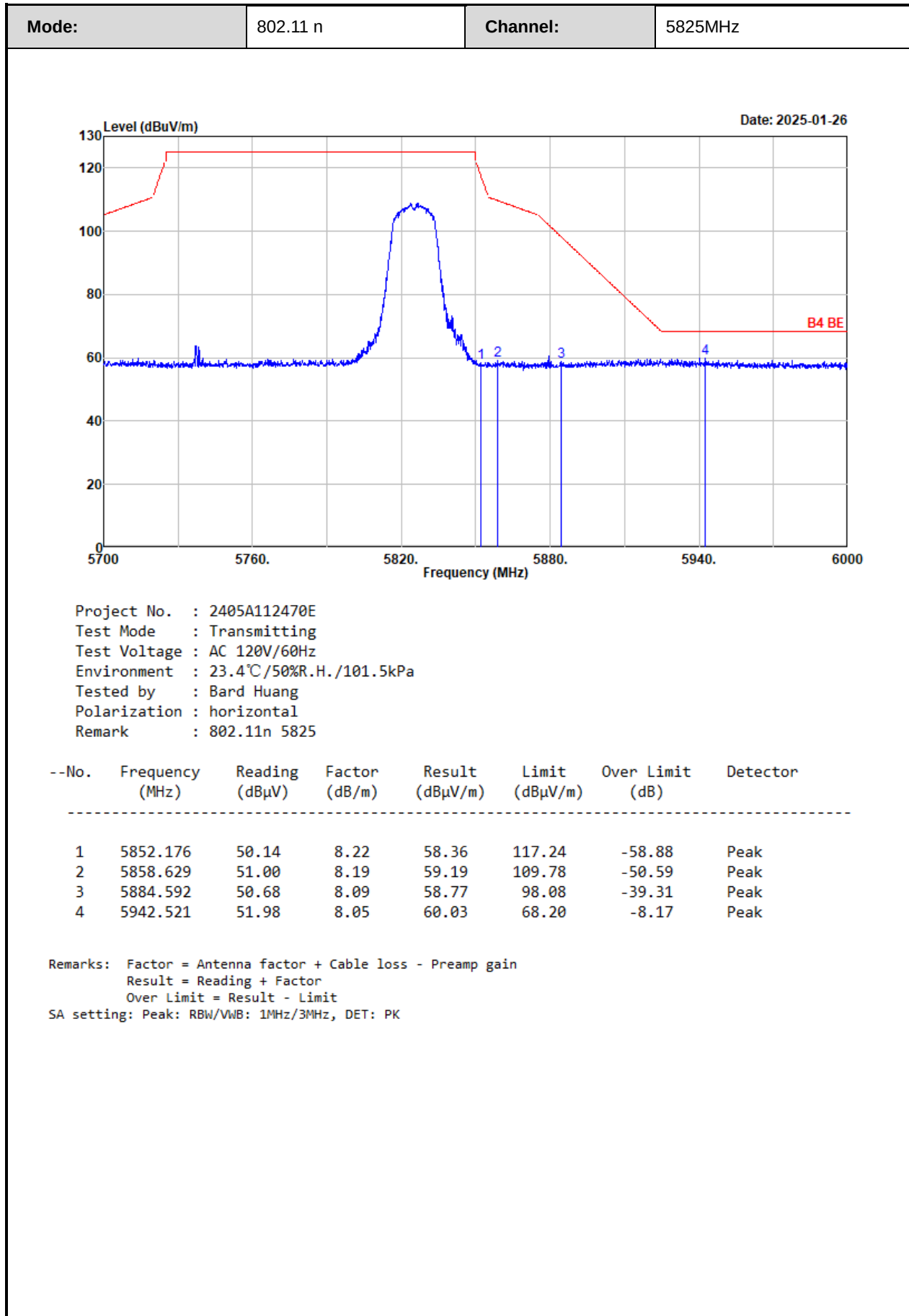


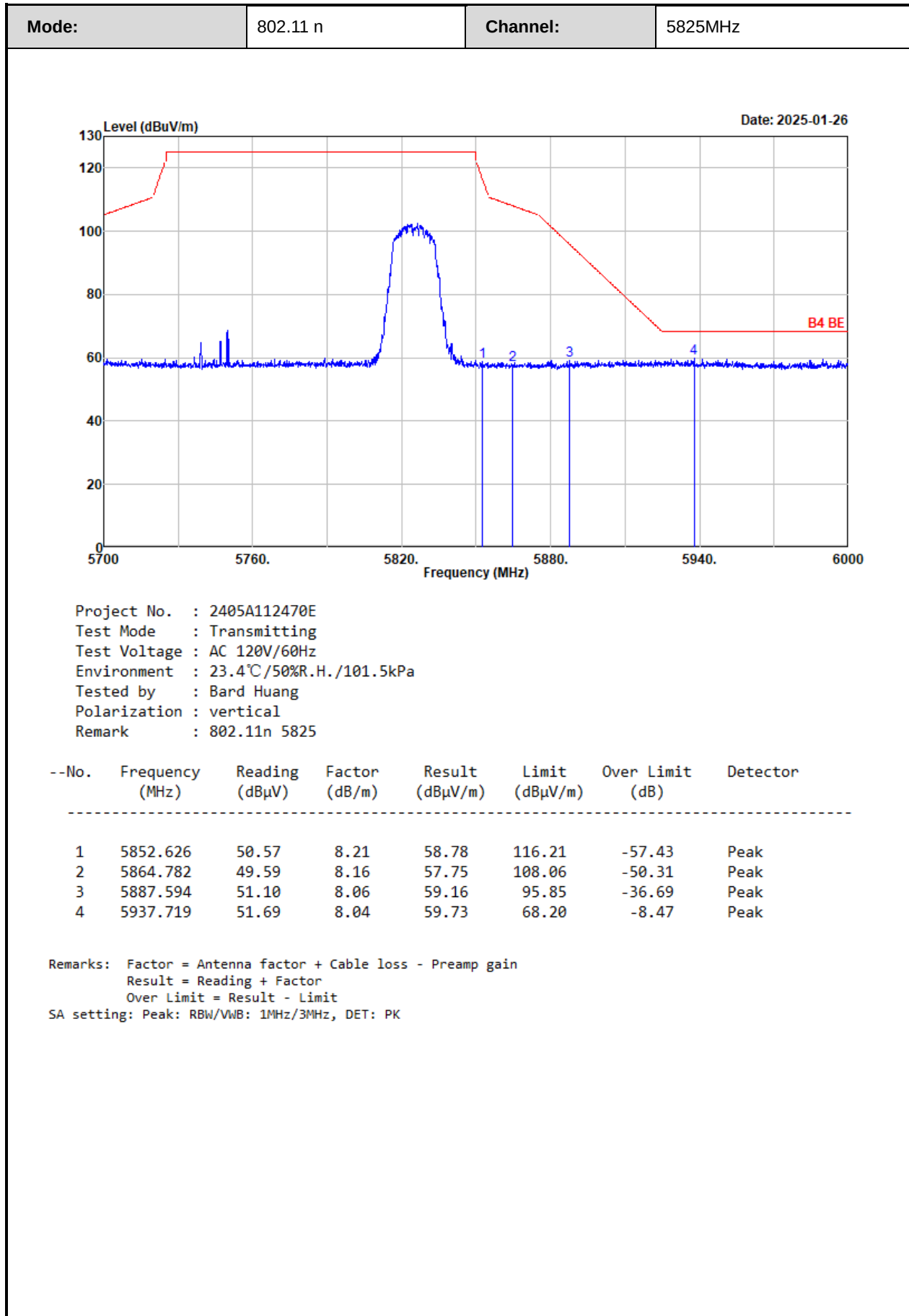












3.5 RF Conducted Test Data

Test Date:	2025-02-18	Test By:	Ryan Zhang
Environment condition:	Temperature: 23.7°C; Relative Humidity:55%; ATM Pressure: 101.3kPa		

3.5.1 26dB Emission Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5180	19.369
	5200	19.319
	5240	19.419
802.11n20	5180	20.644
	5200	20.695
	5240	20.798

5250-5350MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5260	19.369
	5280	19.419
	5320	19.419
802.11n20	5260	20.594
	5280	20.489
	5320	20.592

5470-5725MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5500	19.269
	5580	19.419
	5700	19.369
802.11n20	5500	20.440
	5580	20.643
	5700	20.493

3.5.2 6dB Emission Bandwidth

5725-5850MHz

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	5745	16.416	0.5	Pass
	5785	16.366	0.5	Pass
	5825	16.366	0.5	Pass
802.11n20	5745	16.917	0.5	Pass
	5785	16.917	0.5	Pass
	5825	16.917	0.5	Pass

3.5.3 99% Occupied Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.250
	5200	16.250
	5240	16.300
802.11n20	5180	17.400
	5200	17.400
	5240	17.400

Note:

The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.

5250-5350MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5260	16.300
	5280	16.250
	5320	16.250
802.11n20	5260	17.350
	5280	17.400
	5320	17.400

5470-5725MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5500	16.300
	5580	16.300
	5700	16.300
802.11n20	5500	17.400
	5580	17.400
	5700	17.400

5725-5850MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.300
	5785	16.300
	5825	16.300
802.11n20	5745	17.450
	5785	17.450
	5825	17.400

Note:

The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

3.5.4 Maximum conducted output power

5150-5250MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5180	13.37	23.98	Pass
	5200	13.14	23.98	Pass
	5240	13.84	23.98	Pass
802.11n20	5180	12.87	23.98	Pass
	5200	13.11	23.98	Pass
	5240	13.51	23.98	Pass

5250-5350MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5260	14.28	23.87	Pass
	5280	14.58	23.88	Pass
	5320	14.4	23.88	Pass
802.11n20	5260	13.95	23.98	Pass
	5280	14.15	23.98	Pass
	5320	14.21	23.98	Pass

5470-5725MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5500	14.55	23.85	Pass
	5580	15.56	23.88	Pass
	5700	15.06	23.87	Pass
802.11n20	5500	14.35	23.98	Pass
	5580	15.39	23.98	Pass
	5700	14.81	23.98	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	14.18	30	Pass
	5785	14.56	30	Pass
	5825	15.13	30	Pass
802.11n20	5745	14.30	30	Pass
	5785	14.26	30	Pass
	5825	14.90	30	Pass

Note:

Average Output Power = Reading + Duty Factor

Duty Factor refer to the Duty Cycle.

3.5.5 Power Spectral Density

5150-5250MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	2.70	0	2.70	11	Pass
	5200	2.92	0	2.92	11	Pass
	5240	3.62	0	3.62	11	Pass
802.11n20	5180	2.34	0	2.34	11	Pass
	5200	2.52	0	2.52	11	Pass
	5240	3.10	0	3.10	11	Pass

5250-5350MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5260	4.23	0	4.23	11	Pass
	5280	4.50	0	4.50	11	Pass
	5320	4.40	0	4.40	11	Pass
802.11n20	5260	3.76	0	3.76	11	Pass
	5280	3.99	0	3.99	11	Pass
	5320	4.02	0	4.02	11	Pass

5470-5725MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5500	4.50	0	4.50	11	Pass
	5580	5.53	0	5.53	11	Pass
	5700	5.10	0	5.10	11	Pass
802.11n20	5500	4.60	0	4.60	11	Pass
	5580	5.56	0	5.56	11	Pass
	5700	4.83	0	4.83	11	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Reading(dBm /500kHz)	Duty Cycle Factor(dB)	Result(dBm /500kHz)	Limit(dBm /500kHz)	Verdict
802.11a	5745	1.47	0	1.47	30	Pass
	5785	1.78	0	1.78	30	Pass
	5825	2.57	0	2.57	30	Pass
802.11n20	5745	1.63	0	1.63	30	Pass
	5785	1.54	0	1.54	30	Pass
	5825	2.42	0	2.42	30	Pass

Result = Reading + Duty Cycle Factor

3.5.6 Duty Cycle

5150-5250MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5180	100	100	100	0	NA	0.010
	5200	100	100	100	0	NA	0.010
	5240	100	100	100	0	NA	0.010
802.11n20	5180	100	100	100	0	NA	0.010
	5200	100	100	100	0	NA	0.010
	5240	100	100	100	0	NA	0.010

5250-5350MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5260	100	100	100	0	NA	0.010
	5280	100	100	100	0	NA	0.010
	5320	100	100	100	0	NA	0.010
802.11n20	5260	100	100	100	0	NA	0.010
	5280	100	100	100	0	NA	0.010
	5320	100	100	100	0	NA	0.010

5470-5725MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5500	100	100	100	0	NA	0.010
	5580	100	100	100	0	NA	0.010
	5700	100	100	100	0	NA	0.010
802.11n20	5500	100	100	100	0	NA	0.010
	5580	100	100	100	0	NA	0.010
	5700	100	100	100	0	NA	0.010

5725-5850MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5745	100	100	100	0	NA	0.010
	5785	100	100	100	0	NA	0.010
	5825	100	100	100	0	NA	0.010
802.11n20	5745	100	100	100	0	NA	0.010
	5785	100	100	100	0	NA	0.010
	5825	100	100	100	0	NA	0.010

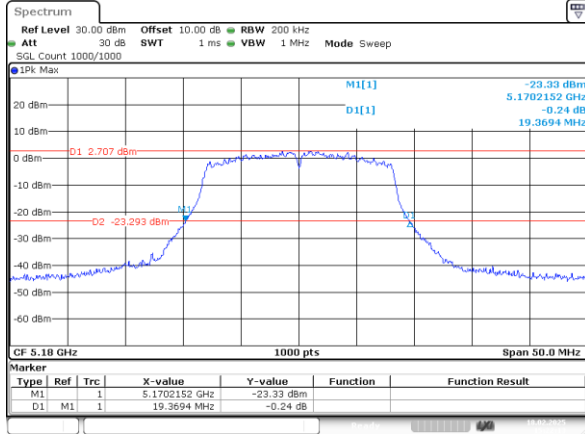
Duty Cycle = Ton/(Ton+Toff)*100%

Test Plots:

26dB Emission Bandwidth:

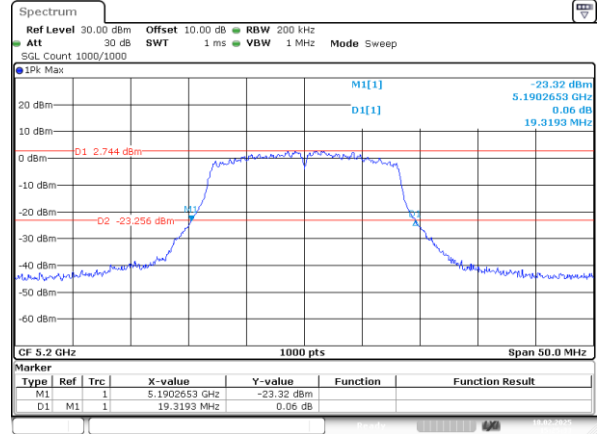
5150-5250MHz

802.11a_5180MHz



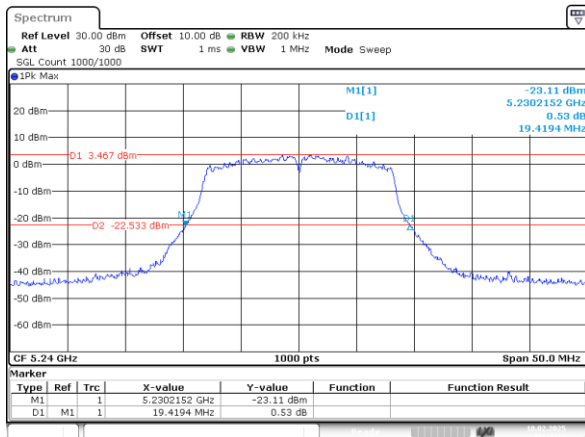
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802.11a_5200MHz



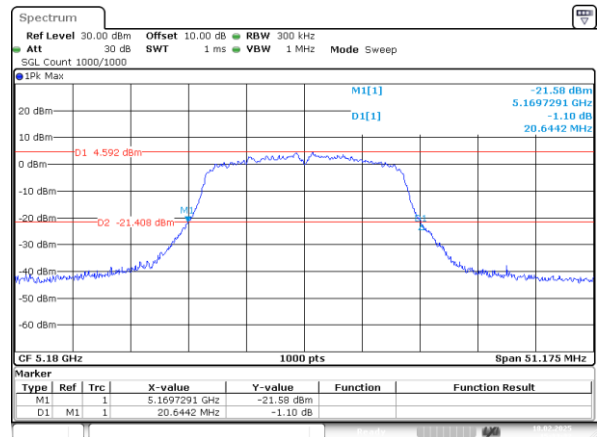
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802.11a_5240MHz



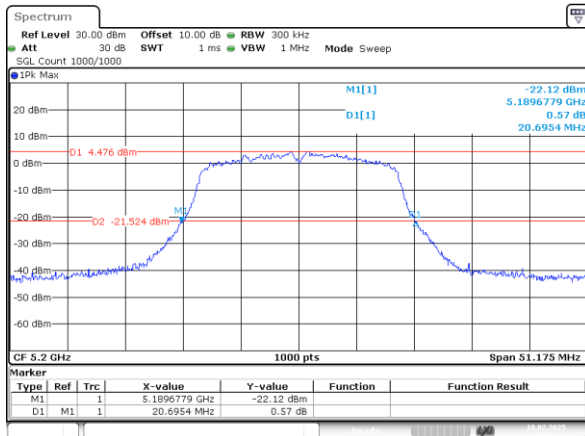
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802.11n20_5180MHz



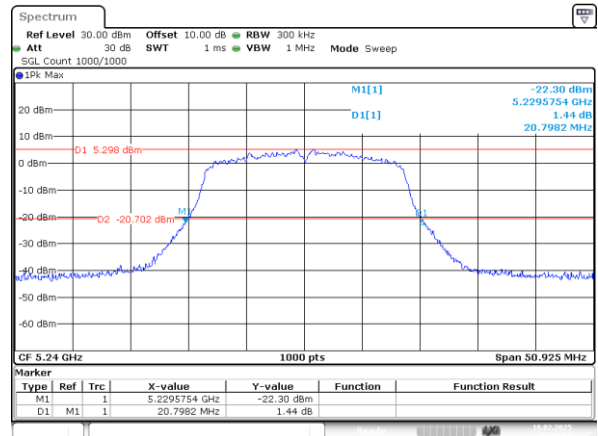
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802.11n20_5200MHz



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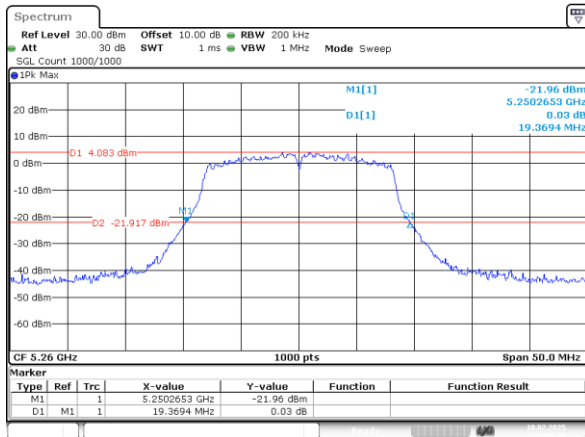
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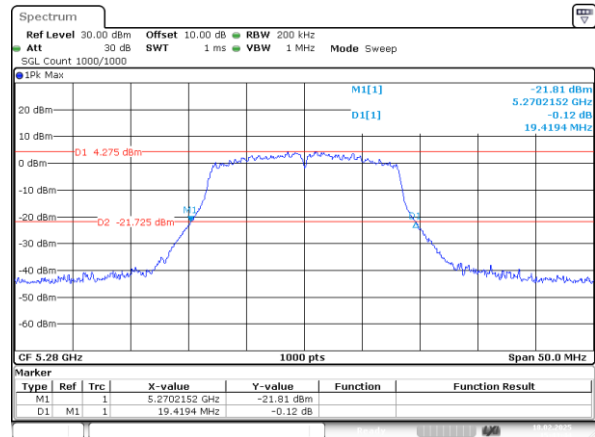
5250-5350MHz

802.11a_5260MHz



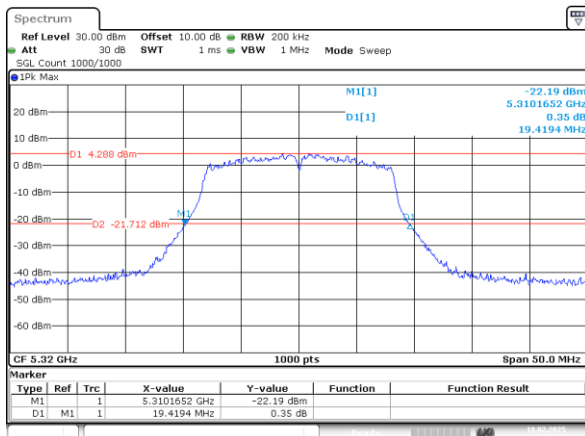
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802.11a_5280MHz



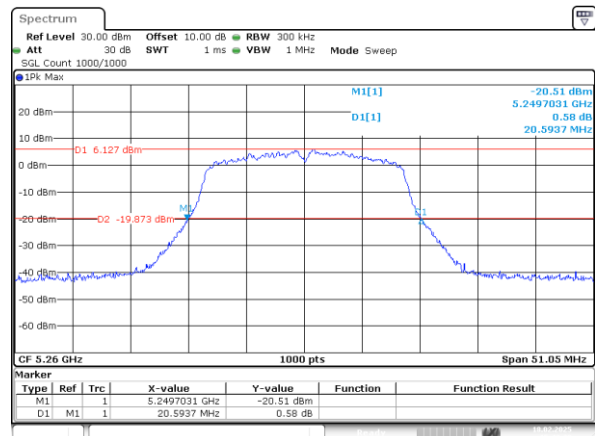
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802.11a_5320MHz



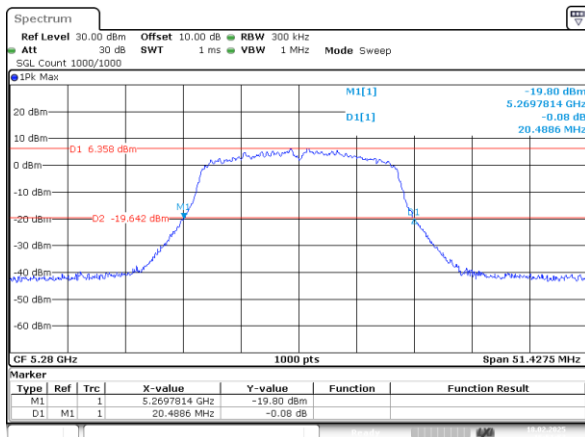
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802.11n20_5260MHz



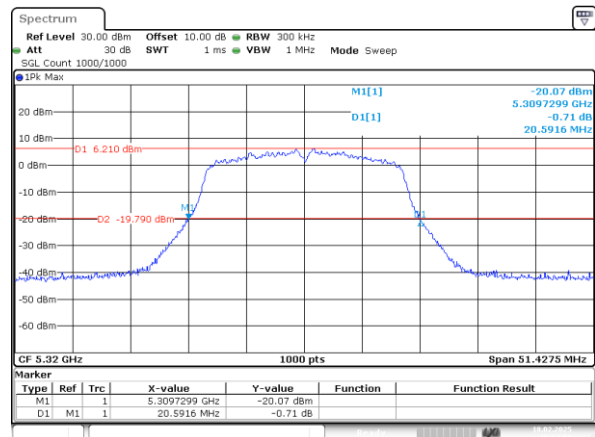
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802.11n20_5280MHz



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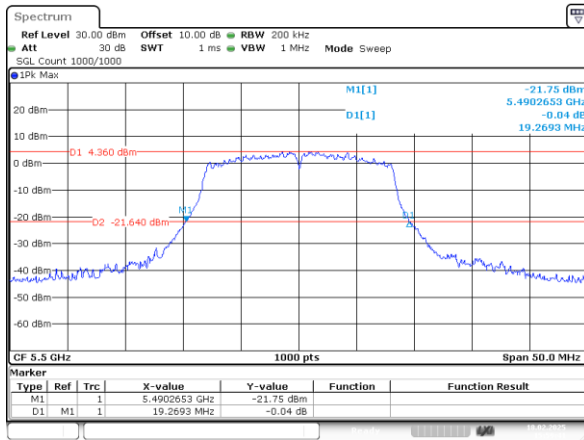
802.11n20_5320MHz



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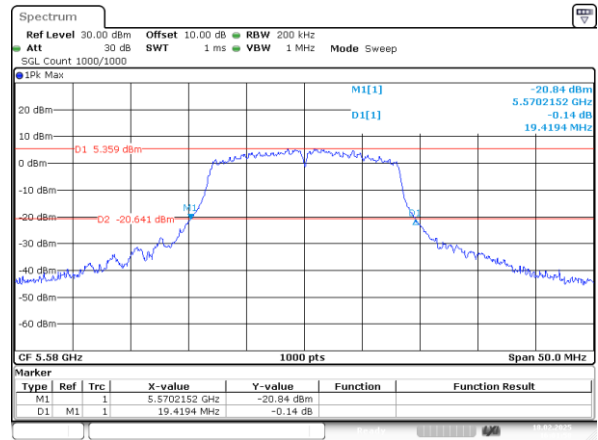
5470-5725MHz

802.11a_5500MHz



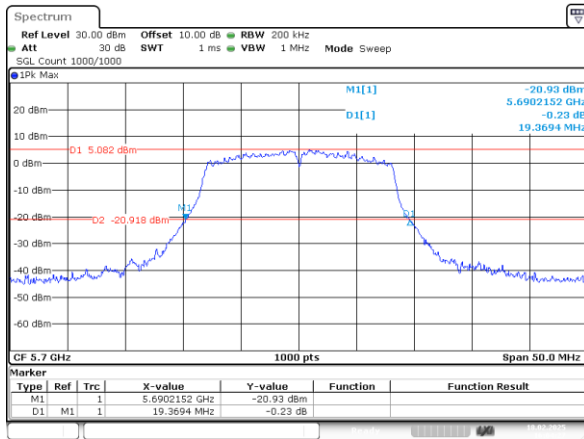
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802.11a_5580MHz



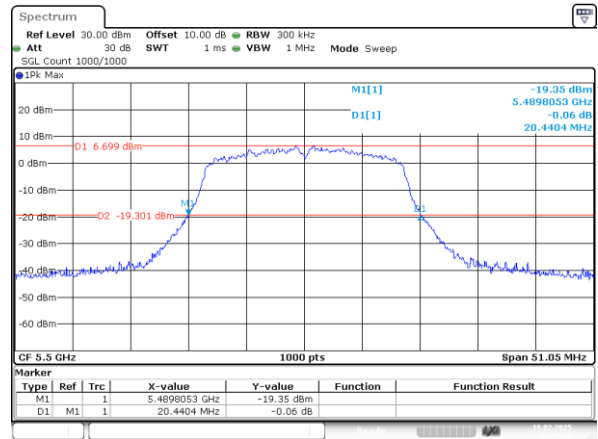
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802.11a_5700MHz



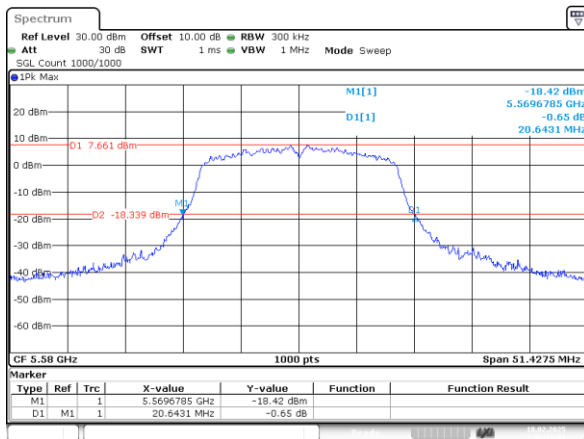
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802.11n20_5500MHz



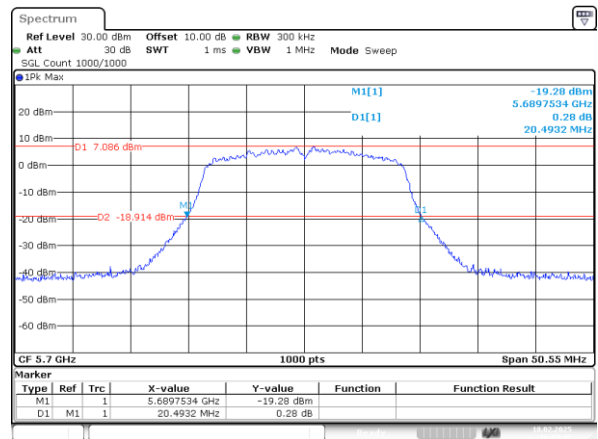
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802.11n20_5580MHz



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802.11n20_5700MHz

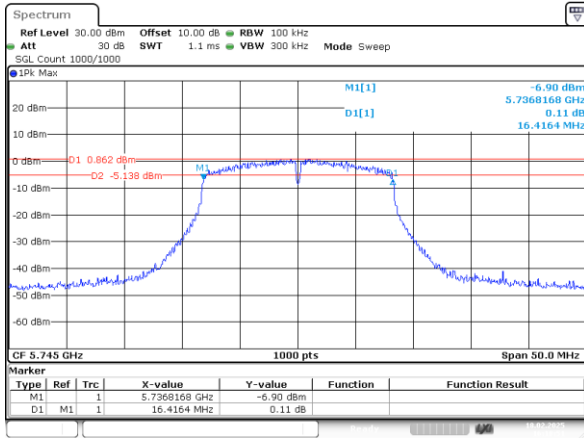


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6dB Emission Bandwidth:

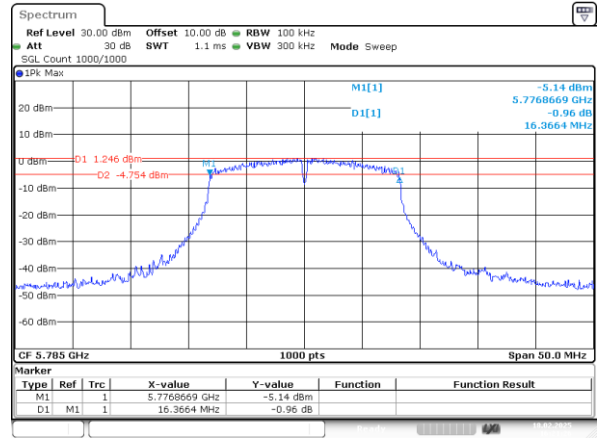
5725-5850MHz

802.11a_5745MHz



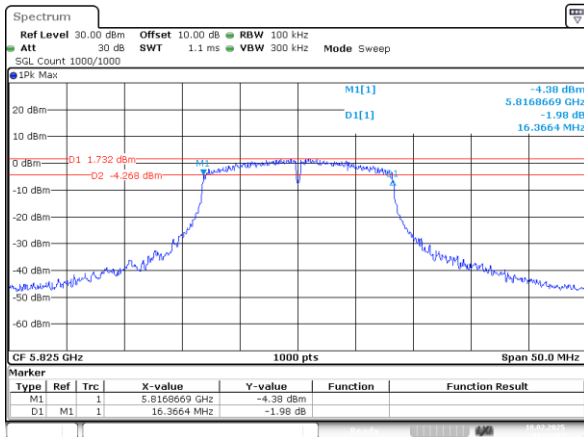
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802.11a_5785MHz



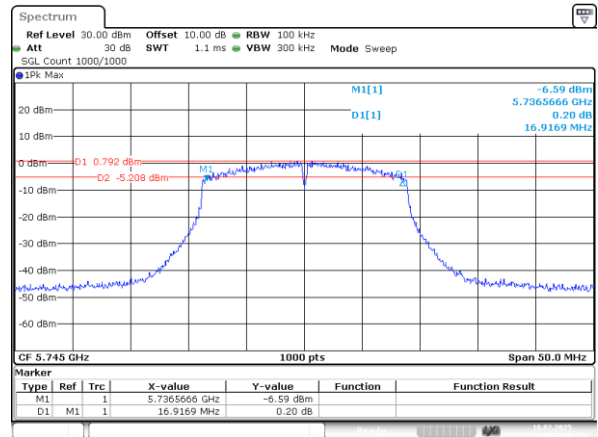
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802.11a_5825MHz



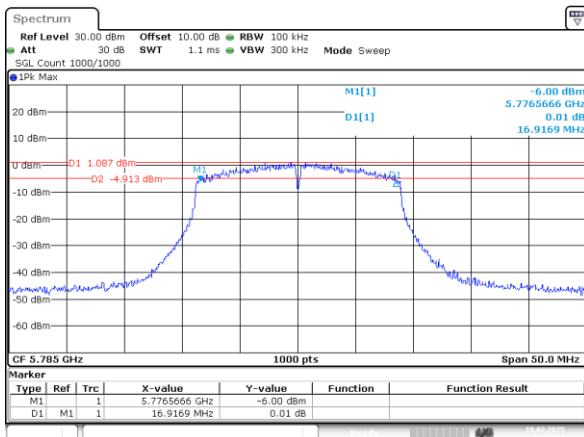
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802.11n20_5745MHz



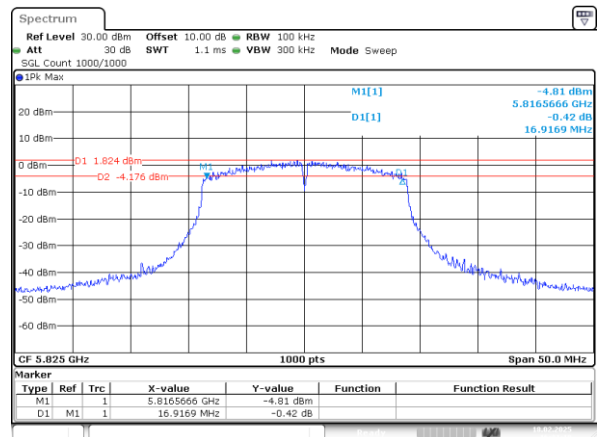
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802.11n20_5785MHz



ProjectNo.:2405A112470E-RF Tester:Ryan Zhang
Date: 18.FEB.2025 16:28:50

802.11n20_5825MHz



ProjectNo.:2405A112470E-RF Tester:Ryan Zhang
Date: 18.FEB.2025 16:31:09